

FINAL OU3 GROUNDWATER REMEDIAL INVESTIGATION REPORT

For:

**FORMER ANGELES CHEMICAL COMPANY FACILITY
8915 SORENSEN AVENUE
SANTA FE SPRINGS, CALIFORNIA**

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Executive Summary

This Report presents the results of soil and groundwater investigation activities and the non-time critical removal actions at the Angeles Chemical Company (ACC) property. The ACC site is located at 8915 Sorensen Ave, Santa Fe Springs, CA (see Figure 1) and occupies approximately 1.9 acres. The site is located in a predominantly industrial area and is bounded on the northwest by Air Liquide Corporation, on the north by Plastall Metals Corporation, and on the south by a Southern Pacific Railroad easement and the McKesson Chemical Company property (Figure 2). The ACC site is currently used to temporarily house storage containers and as a vehicle maintenance facility, and the perimeter is fenced.

Site History: Reports provided to the Department of Toxic Substances Control (DTSC) indicate that from 1927 until 1976 when ACC developed the facility, the site was undeveloped and used for agricultural purposes. Railroad tracks and oil production facilities were present to the south as early as 1927 and it is believed that Southern Pacific Transportation Company may have owned the property. Industrial activities expanded into the general area in the mid 1960s and ACC began construction of permanent facilities on the property in late 1976.

From 1976 to 2000, ACC conducted chemical repackaging operations on the property. This involved repackaging chemicals into containers of various sizes for resale to customers. Bulk chemicals were stored in both underground storage tanks (USTs) and above ground storage tanks (ASTs) and in 55-gallon drums at various locations on the site. Chemicals stored and used on site included but were not limited to: acetone, methylene chloride, chlorinated solvents, methyl ethyl ketone (MEK), toluene, xylene, isobutyl acetate, butyl cellosolve, propanol, kerosene, diesel, and unleaded gasoline.

Site Description: At the time of operation most of the ACC facility was paved with asphalt or concrete. Exceptions to this were portions of gravel base along the railroad spur, along the western and northern periphery of the site, and a gravel base strip to the south adjoining the spur easement. Three buildings (two offices and a laboratory) were present at the facility.

A canopy covered the packaging production line in the central portion of the site. Railroad spurs were located along the northern and western boundaries of the site. A loading platform and ramp were associated with the offloading of chemicals delivered via trucks or the railroad spurs. Peripheral areas of the site were used for temporary empty drum storage. Figure 3 shows historic surface and subsurface features that were present during the operation of the facility.

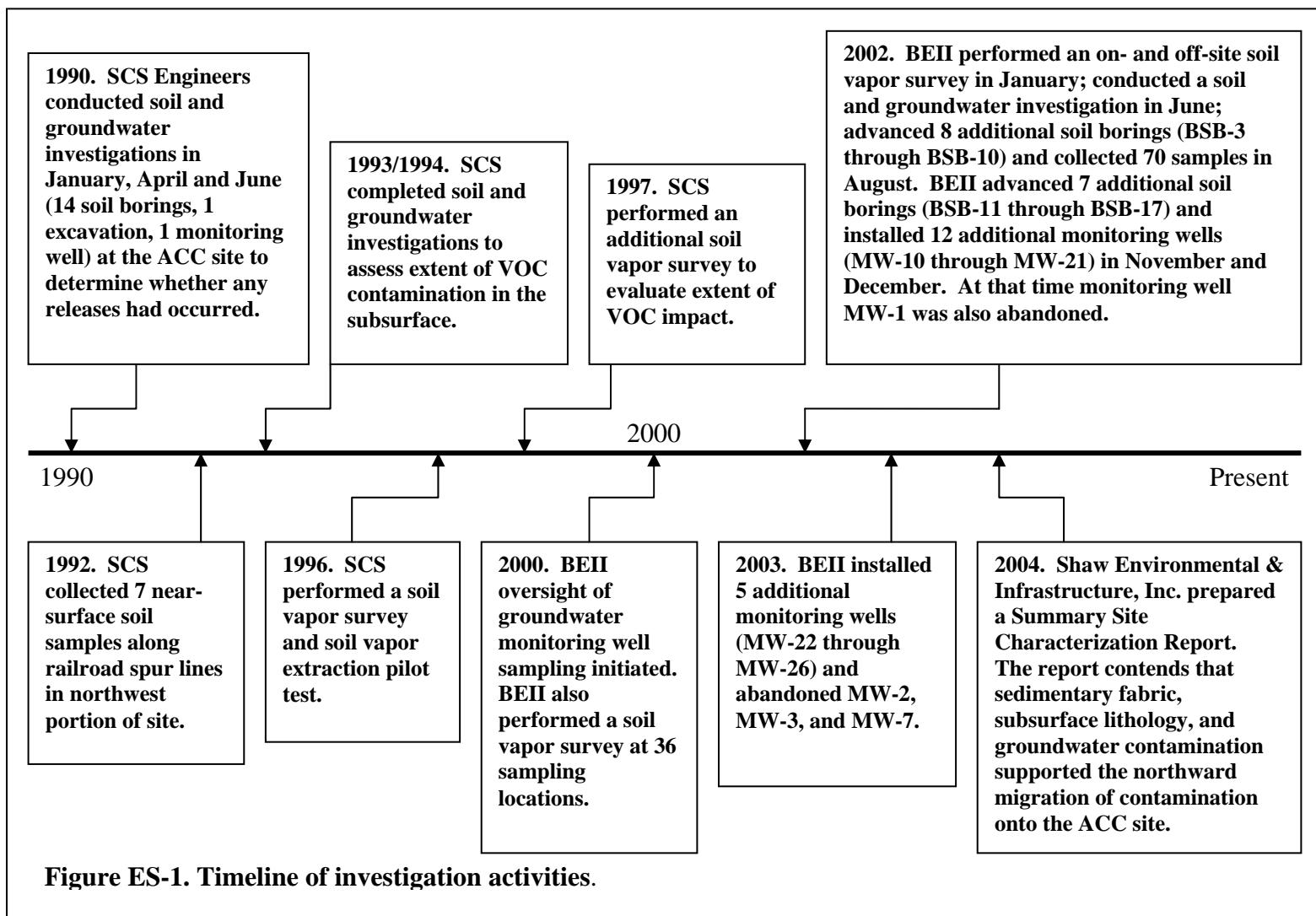
Reports indicate that there were 34 USTs on site for product storage. These USTs were located in the southern and central portions of the property, along with one underground waste water tank. In addition to the USTs, there were nine ASTs and numerous designated storage areas for palletized chemical storage drums throughout the site.

The site was reported to have three spill drains located near the north central truck loading ramp, the south central portion of the site east of the canopy area, and immediately east of

the canopy area. Subsurface piping led from the first two drains to the underground waste water tank. Subsurface piping for the third drain ran into a subsurface concrete trap from which a single subsurface pipeline led to the underground waste water tank.

Site Characterization Activities: A number of soil and groundwater investigations were conducted at the ACC site from 1985 through 2003 to identify potential sources of contamination and to characterize the nature and extent of contamination at the site. All of the contaminant source area investigations conducted at the ACC site were performed prior to 2002. Since 2002, all investigations have been focused on delineating and further characterizing the extent of vadose zone and groundwater contamination. In 1996, the ACC site was separated into three operable units. Operable Unit 1 (OU-1) addressed soil in the northern portion of the site, Operable Unit 2 (OU-2) addressed soil in the southern portion of the site, and Operable Unit 3 (OU-3) addresses groundwater beneath the site.

Figure ES 1 summarizes the time line for investigation activities at the ACC site.



Site characterization activities found that vadose zone soils beneath the site consisted of silty clay with some minor amounts of silt and sand to a depth of about 15 feet below ground surface (bgs). These were underlain by poorly sorted, coarse-grained sand and gravel to a depth of about 26 feet bgs.

The top of a discontinuous perched aquifer, located in the northern part of the site, appears to correspond to this coarse zone found at approximately 20 to 25 feet bgs. The first water, the deeper continuous water bearing-unit, is encountered beneath the ACC site at approximately 35 feet bgs. This water-bearing unit has been interpreted at times to be the Gage or Gasper/Hollydale aquifer.

Groundwater flow direction in the regional Hollydale aquifer (also referred to as the A1 zone) beneath the site generally reflects the regional west-southwesterly groundwater flow direction. However, groundwater flow in the perched aquifer zone is much more transient and has been documented apparently flowing northward, southward and westward during different sampling events. The nearest drinking water well is located approximately one-half mile north of the site (up gradient) and is screened in the deeper Silverado and Sunnyside aquifers. PCE has been detected in water quality tests conducted for that well.

Nature and Extent of Contamination:

Soil: Soil samples collected from soil borings and during the drilling of wells in the northern and central portions of the site uniformly exhibited elevated VOC concentrations throughout the soil column. Soil from the surface down to groundwater appear to be contaminated with elevated concentrations of VOCs, including BTEX (benzene, toluene, ethylbenzene, and xylenes), methyl ethyl ketone (MEK), chloroethane, 1,1-dichloroethane (1,1-DCA), cis-1-2-dichloroethene (cis-1,2-DCE), 1,4 dioxane, methylene chloride, 4-methyl-2-pentanone (MIBK), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), 1,2,4-trimethylbenzene and others, based upon sample data from on-site investigations.

The highest concentrations of total VOCs in soil were found in the vicinity of the railroad spur lines (19,036,700 at parts per billion (ppb)) in the northwestern portion of the site, in the area of the USTs (4,098,000 ppb) and the south central spill drain area (1,018,300 ppb). The high concentrations of VOCs found at these locations suggest that they are possible source areas.

Soil Vapor: VOC vapor isoconcentration maps generated in the late 1990's and early 2000's by SCS Engineers and BEII, uniformly show elevated soil vapor concentrations. Total VOC concentrations have been found as high as 108,430 ppb (ug/L) in site soil vapor. The contaminants found in soil vapor are similar to the VOCs found in soil samples (listed above) and appear to be associated with documented releases in the northern railroad area and around the USTs and canopy area. Table 2 summarizes soil vapor sampling data collected

from the site. These data show that as of the date of the last sampling VOCs continue to impact soil vapor in the upper 20 feet of the vadose zone.

Groundwater: DTSC reviewed maps of groundwater contamination from the late 1990's and early 2000's that were prepared by SCS Engineers and BEII. These maps indicate that elevated concentrations of VOCs are present in groundwater beneath the site. Individual VOC concentrations found in groundwater range from non-detect to as high as 151,000 ppb (Acetone) and free phase product was found in select monitoring wells. In addition to the groundwater monitoring wells located close to identified source areas on the ACC site, monitoring wells along the southern property boundary also exhibit elevated VOC concentrations. Monitoring wells located to the east (cross-gradient) of the identified source areas do not show elevated contaminant concentrations.

In the southern portion of the site it has been noted that although deeper soil and groundwater are impacted by the same VOCs released on site, the shallow near-surface soil does not exhibit similar evidence of contamination. It has been suggested that for some of those locations, the lack of shallow contamination is evidence that an off-site source has led to the observed groundwater and deeper soil contamination. However, as discussed below, this contamination appears to be associated with the ACC site.

Groundwater sampling or lack of groundwater sampling if free phase product is encountered at the time of sampling, indicates that groundwater contamination is greatest beneath and around identified source areas. These identified on-site source areas are in most cases directly up-gradient from the wells with the highest VOC contaminant levels in groundwater. Others have speculated that site soil and groundwater may have been impacted by an off-site contamination source. However, review of the site data suggests that on-site sources are more likely to be the source of contamination.

A widespread groundwater contamination plume occurs across the Santa Fe Springs area within the shallow regional aquifer ("A1 zone" and deeper). A comparison of the VOC concentrations observed on the site (particularly in groundwater from the upper portion of the A1 zone) with VOC concentrations found in the Santa Fe Springs regional plume found that VOC concentrations in the vicinity of the identified ACC site release areas are noticeably higher than those in the Santa Fe Springs regional plume. Furthermore, VOC concentrations southwest (down-gradient) of the ACC site are significantly higher than the same constituent concentrations up-gradient of the site.

Interim Remedial Actions

A RAW for OU-1 was approved in June 1998. A RAW for OU-2 was approved on August 5, 1999. The approved remedy for the VOC contamination in soil at both OU-1 and OU-2 was in-situ soil vapor extraction with catalytic oxidation. A vapor extraction system has been installed for both OU-1 and OU-2. The vapor extraction system consists of eleven extraction wells connected to a 500 standard cubic feet per minute (scfm) soil vapor extraction unit. According to the property owner, that unit is currently operating and has reportedly been operating since the 4th quarter 2005.

Conclusions

Based on the data presented in the various soil investigations and groundwater monitoring reports submitted to the DTSC since 1990, it appears that significant releases of solvents and hydrocarbon fuel have occurred at the ACC site and that both soil and groundwater have been impacted by those releases. Areas where significant chemical and/or hydrocarbon fuel releases have occurred include:

- The railroad spur along the northern portion of the site.
- The areas around all former USTs located on site.
- The canopy area in the central and south-central portions of the site.
- The vicinity of subsurface drains and product lines throughout the site.

The above data indicates that releases at the ACC site have been the most significant contributor to soil, soil vapor and groundwater contamination beneath the site. VOC concentrations in groundwater to the southwest (down-gradient) of the ACC site were also found to be significantly higher than the same constituent concentrations up-gradient of the site. This suggests that the ACC site also appears to be contributing to the elevated VOC concentrations observed down-gradient of the site.

Data gaps: After conducting a comprehensive file review from DTSC files and the information provided by respondents, borrowers and property owners, DTSC identified the following data gaps:

1. Soil sample analyses associated with installation of a number of groundwater wells, including MW-2, MW-3, MW-11, MW-13-14, MW-18, and MW-20 thru 26.
2. Further off-property assessment of groundwater to the west to determine the extent of off-property groundwater contamination.
3. A baseline human health risk assessment (BHHRA) to determine the level of risk that exists at current contaminant levels for both the vadose zone and groundwater. Completion of the HHRA may identify data gaps that are not obvious at this time.

The lack of data listed in number 1 above should not restrict or limit the ability to make reasonable interpretations and decisions regarding future work to be conducted to remediate the site. Based on the data reviewed during the preparation of this document, it is apparent that soil and groundwater have been impacted by on-site releases, and the lateral and vertical extent of that contamination has been adequately delineated on the property. Therefore, no further characterization or investigation work is recommended on the ACC property. The additional off-property data that is needed to fully characterize the extent of contamination in groundwater may be collected during the remedial action phase of the project.

Remedial Action Recommendations

The DTSC recommends that a BHHRA and feasibility study (FS) be completed as soon as possible. Once the BHHRA and the FS are complete, we recommend moving forward with completion of a Removal Action Workplan (RAW)/Remedial Action Plan (RAP) and implementation of the final remedy.

Pending completion of the RAW/RAP and implementation of the final remedy DTSC recommends continued operation of the soil vapor extraction systems currently installed at OU-1 and OU-2.

1.0 INTRODUCTION

1.1 Report Organization

Section 1 of this RI Report presents the Introduction, Background and results of the various investigations that have occurred at the ACC site. Section 2 discusses activities associated with the study area investigations. Section 3 presents characteristics of the study area, while the nature and extent of contamination is presented in Section 4. A discussion of the fate and transport of identified contamination is covered in Section 5. Section 6 discusses OU3 as a complete exposure pathway, as required by the ISEO. Section 7 presents a summary and conclusions based on the groundwater investigations at the ACC site.

1.2 PURPOSE OF REPORT

This Remedial Investigation Report (RI Report) has been prepared by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC) for the former Angeles Chemical Company (ACC) property located at 8915 Sorensen Ave, Santa Fe Springs, CA (see Figure 1). This RI Report was prepared to comply with the DTSC enforceable documents Imminent and Substantial Endangerment (ISEO) Docket Number 92/93-012, dated February 10, 1993 and the Clean Loan and Environmental Assistance to Neighborhoods Program Response Action Agreement (CLEAN) Docket Number A-01/02-052, dated December 10, 2001. The ISEO and the CLEAN directed the Respondents, Borrowers and Property owners to conduct a remedial investigation and feasibility study (RI/FS), to develop a removal action workplan (RAW)/remedial action plan (RAP) and to implement that plan to remove or remediate any soil and/or groundwater contamination identified with the ACC. This RI Report has been prepared by DTSC staff using data provided by the Respondents, Borrowers and Property owners. All planning documents, quality assurance, quality control and field investigation work has been completed by the Respondents, Borrowers and Property owners and their consultants.

This RI was prepared to achieve the following objectives:

- Review ACC site investigation data provided to DTSC by the Respondents, Borrowers and Property owners to assess and document the nature and extent of chemicals of concern in soil and groundwater,
- Identify data gaps,
- Identify existing and potential migration pathways,
- Determine if adequate data is available to prepare a Baseline Human Health Risk Assessment and Ecological Risk Assessment (BHHRA),
- Determine if adequate data is available to prepare a Feasibility Study (FS) to identify and evaluate appropriate remedial alternatives, and
- Collect, evaluate and present information necessary to prepare a removal action workplan (RAW) or remedial action plan (RAP), as determined appropriate.

As stated in the CLEAN and to maintain compliance with the National Contingency Plan, a full baseline human health risk assessment and a FS will be required. This RI Report does not include the BHHRA or the FS. Following review of data currently available for this RI, a BHRRA and a FS will need to be conducted. The BHHRA and the FS should be conducted in accordance with State and Federal guidelines and at a minimum should include the following components:

BHRRA

- Contaminant Identification
- Environmental Evaluation
- Exposure Assessment
- Toxicity Assessment
- Risk Characterization

Feasibility Study

- Identify site-specific remedial action objectives based on applicable and relevant and appropriate requirements (ARARs), exposure pathways, and baseline risk assessment.
- Identify potential treatment technologies and/or containment/disposal options for site wastes.
- Utilize U.S.EPA's nine criteria (40 CFR 300.430(e)(9)(iii)) to screen these technologies
- Assemble technologies into remedial action alternatives.
- Screen and detailed evaluation of remedial action alternatives.
- Identify the preferred alternative(s) to address existing site conditions

It is recommended that once the BHHRA and FS have been conducted and the associated reports have been prepared, the appropriate remedial measure should be taken. A Removal Action Workplan (RAW) or Remedial Action Plan (RAP) should then be prepared to provide a detailed summary of the preferred remedial action alternative.

1.3 Site Background

1.3.1 Site Description

The ACC facility is located at 8915 Sorensen Avenue, in the City of Santa Fe Springs, Los Angeles County, California (Figure 1). The site is fenced, occupies approximately 1.9 acres in a predominantly industrial area, and is bounded on the east by Sorensen Avenue, on the northwest by Air Liquide Corporation, on the north by Plastall Metals Corporation, and on the south by a Southern Pacific Railroad easement and across the easement is the McKesson Chemical Company property (Figure 2). The property generally slopes to the southwest in a direction towards the Southern Pacific Transportation Railroad tracks.

1.3.2 Site History

Historic land use was reviewed by previous site consultants and provided to DTSC in

previously submitted reports. The reports indicated that consultants studied available aerial photographs obtained from the Fairchild Aerial Photography Collection at Whittier College. It was reported that from 1927 to the time ACC developed the facility in January, 1976 the site was undeveloped and may have been used for agricultural purposes. Railroad tracks are visible along the southern property boundary as early as 1927. Activities in the area included primarily agriculture both on the property and to the north, and oil production to the south. Industrial activities expanded into the general area in the mid 1960s. Interviews with ACC personnel indicate no permanent facilities existed prior to ACC construction in January 1976. Southern Pacific Transportation Company previously owned the property.

ACC conducted chemical repackaging operations on the present property from 1976 to 2000. Chemicals handled by ACC were transported to and from the facility by ACC or by contract carriers using truck and railcars. Chemicals were stored at the facility for the purpose of repackaging them into containers of various sizes for resale to its customers. The bulk chemicals were stored in both underground storage tanks (USTs) and above ground storage tanks (ASTs), while smaller quantities were stored in 55-gallon drums at various locations on the site. Chemicals stored and used on site included but were not limited to: acetone, methylene chloride, chlorinated solvents, methyl ethyl ketone (MEK), toluene, xylene, isobutyl acetate, butyl cellosolve, propanol, kerosene, diesel, and unleaded gasoline.

Site investigations performed by SCS Engineers (SCS) and Blakely Environmental Investigations, Inc. (BEII) between 1990 and 2003 found that site soil, soil vapor and groundwater was impacted by volatile organic compounds. The historic releases discussed below were identified as potential onsite sources of contamination. In 1984, 10 gallons of acetone and 50 gallons of kerosene were released on site. The Santa Fe Springs Fire Department (SFSFD) supervised these cleanups. According to reports prepared by EREMCO (1999, 2001), twelve USTs were excavated and removed from the ACC site, and another twelve USTs were slurred and abandoned in place under the oversight of the City of Santa Fe Springs Fire Department in late 1998 and 1999. Soil sampling associated with the UST removal indicated elevated VOC concentrations in soil beneath the USTs.

In 2000, during a site visit with DTSC staff, former owner John Locke identified the onsite railroad spur along the northern boundary of the property as associated with a history of solvent spills during chemical off-loading activities. Another onsite release area identified was at the southeast corner of the operational pad where a spill drain pipe leading to a sump had been cut. During the 2000 site visit, DTSC staff also identified contaminated soil located immediately adjacent to the canopy at the northwest corner. It appeared that product had leaked from the solvent filling machine onto a pad and then off the pad onto the surrounding soils.

On May 19, 2000, SFSFD responded to a call when Angeles Chemical was pumping UST contents out to the street. Sample analysis from the offsite release detected that the material was ignitable and therefore hazardous. After this release, the ACC facility was closed.

Subsequent investigations continued under new ownership, and no additional releases are known to have occurred. In 2001, six more USTs were removed and the remaining four USTs were slurried and abandoned in place under the oversight of the City of Santa Fe Springs Fire Department. Soil samples were collected from beneath the removed USTs and adjacent to the USTs that remained in place. Soil analytical results indicated elevated VOC concentrations in the soil adjacent and beneath the USTs.

1.3.3 Previous Investigations

A number of soil and groundwater investigations were conducted at the ACC site from 1985 through 2003. These actions were conducted with consideration to the Site division into operable units. In 1996 the Site was separated into three operable units. Operable Unit 1 (OU-1) addressed soil in the northern portion of the Site, Operable Unit 2 (OU-2) addressed soil in the southern portion of the Site and groundwater beneath the Site was designated as Operable Unit 3 (OU-3). The RAW for OU-1 was approved in June 1998. The RAW for OU-2 was approved on August 5, 1999. The approved remedy for the VOC contamination in soil and soil vapor for OU-1 and OU-2 was in-situ soil vapor extraction with catalytic oxidation.

The following chronology discusses the consultants and types of investigations that were conducted. Details and results of those investigations will be presented in subsequent sections of this document.

1990 – SCS Engineers (SCS) conducted several investigations at the ACC site to determine whether any releases had occurred. In January 1990, eight soil borings (BH-1 to BH-8) were drilled to a maximum depth of 50 ft below ground surface (bgs) in the vicinity of the USTs and ASTs. In April 1990, a shallow soil excavation was dug around the spill drains and traps, and in June, six soil borings (BH-9 to BH-14) were advanced to a maximum depth of 60 ft bgs and one groundwater monitoring well (MW-1) was installed.

1992 – SCS collected seven near surface soil samples (RR-1 through RR-7) along the railroad spur lines in the northwest portion of the site to evaluate the extent of VOC impact along the railroad spur lines.

1993-1994 – SCS conducted soil and groundwater investigations at the site to assess extent of VOC contamination in the subsurface. At the end of 1993, nine soil borings were advanced down to depths of about 55 feet bgs. Five of those borings were converted to groundwater monitoring wells (MW-2, MW-3, MW-4, MW-6, and MW-7). Groundwater sampling of those wells was conducted in February 1994.

1996 – SCS performed a soil vapor survey and soil vapor extraction pilot test in January 1996 to evaluate effectiveness of soil vapor extraction. Soil vapor samples SV-1 to SV-23 were collected at that time.

1997 – SCS conducted an additional soil vapor survey in November 1997 to evaluate the lateral extent of VOC impact. Twelve locations (SV-24 to SV-35) were sampled at a

depth of 5 ft bgs, and at five of the locations samples were also collected from depths of 15 ft bgs.

1999 - EREMCO removed twelve USTs by excavation and another twelve USTs were slurried and abandoned in place under the oversight of the City of Santa Fe Springs Fire Department in late 1998 and 1999. Following removal of the USTs, soil samples were collected by SCS from beneath each end of the excavated USTs at depths of 14-16 feet bgs. A total of sixteen samples were collected and analyzed for total petroleum hydrocarbons (TPH) and VOCs.

2000 – Blaine Tech Services (Blaine) initiated groundwater monitoring well sampling in November 2000, under the supervision of Blakely Environmental Investigations, Inc. (BEII). BEII also performed a soil vapor survey at the site in November-December at 36 sampling locations. Those new soil vapor sampling locations were identified as SV1 through SV36.

2001 – EREMCO removed six USTs by excavation and another four USTs were slurried and abandoned in place under the oversight of the City of Santa Fe Springs Fire Department in July 2001. Soil grab samples were collected from 2-4 feet below each end of the removed USTs (approximately 15 feet bgs), and samples were collected from beneath the slurry-filled USTs using direct-push technology to a depth of 15 feet bgs. A total of 30 samples were collected and analyzed for TPH and VOCs.

2002 – BEII performed an on- and off-site soil vapor survey in January 2002. A total of thirty (30) sampling locations were sampled at up to three depth intervals (5 ft bgs, 7-12 ft bgs, and 20 ft bgs). In June 2002, two soil borings (BSB-1 and BSB-2) were advanced to depths of 50 ft bgs and 30 ft bgs, respectively, and two additional monitoring wells (MW-8 and MW-9) were installed. In August 2002, eight additional soil borings (BSB-3 through BSB-10) were advanced and a total of seventy samples were collected to depths of 40 to 45 ft bgs. In November and December 2002, BEII advanced seven additional soil borings (BSB-11 through BSB-17) to a maximum depth of 49.5 ft bgs, and installed twelve additional monitoring wells (MW-10 through MW-21). At that time monitoring well MW-1 was also abandoned.

2003 – In June 2003, BEII installed five additional monitoring wells (MW-22 through MW-26) and abandoned monitoring wells MW-2, MW-3, and MW-7.

2004 - A Summary Site Characterization Report was prepared by Shaw Environmental & Infrastructure, Inc. (Shaw) and submitted to DTSC in February 2004. That document went into detail about how the sedimentary fabric and subsurface lithology supported the contention that contamination had migrated northward from the McKesson facility onto the ACC site. The report also focused on soil and groundwater data collected along the southern portion of the ACC site. In the report Shaw contended that the elevated concentrations of contaminants were missing in the shallow soils but were present in the deeper soils, and therefore that contamination was demonstrated to have migrated northward on to the ACC

site from the McKesson site. Shaw also contended that groundwater contamination also supported this northward migration of contamination.

1.3.4 Previous Off-Site Investigations

Environmental investigations have previously been conducted at the following facilities surrounding the ACC site (see Figure 3):

- McKesson Chemical Company (McKesson)
9005 Sorensen Avenue, Santa Fe Springs
Former bulk chemical repackaging facility
- Air Liquide Company (formerly Liquid Air Company)(LAC)
8832 Dice Road, Santa Fe Springs
Manufactures acetylene gas with water and calcium carbide
- Southern California Chemical Corporation (SCC)
8851 Dice Road, Santa Fe Springs
Manufactures inorganic chemicals for plating, electronics, etc

The McKesson property is located directly south of and separated from the ACC site by a railroad right of way. McKesson operated a bulk chemical repackaging facility at this site from 1976 to 1986. The McKesson facility, when it operated, consisted of 44 ASTs and 23 USTs and was organized into four areas: a solvent repack area, a corrosive repack area, a hydrogen peroxide repack area; and a Freon blending area. Loading platforms and underground distribution lines were associated with off loading of chemicals along railroad spurs located along the northern and western boundaries of the property. Since the McKesson facility ceased operating, the ASTs and USTs were removed and a number of on-site soil, soil vapor, and groundwater investigations have been conducted. Off-site groundwater investigations have also been completed to determine the extent of groundwater contamination in an up- and down-gradient direction. The site currently has a soil vapor extraction and groundwater extraction and treatment system in operation to address the identified on-site contamination.

The Air Liquide Company (LAC) facility is located immediately west of the former ACC site. This facility produces compressed gases and historically had an unlined waste disposal pond that was used for the storage of nonhazardous water and residues from acetylene production.

The Southern California Chemical Company (SCC) is located west of the LAC facility and is reported to be an original manufacturer of inorganic chemicals for electronic and printed circuitry, plating, water treatment, and agricultural uses. The facility historically manufactured liquid copper sulfate, copper oxides, copper chloride, ferric chlorides and other formulations including ammoniacal and other etchants. Chemicals reportedly used included ammonia, iron, copper chemicals, hydrochloric acid, sulfuric acid, and other inorganic compounds. This facility has a history of hazardous waste discharges and spills dating back to 1957. Soil and groundwater investigations at the site revealed that the following VOCs were identified in isolated wells on the SCC site: TCE (550 ug/L), toluene (8,300 ug/L), xylenes (10,000 ug/L), ethylbenzene (3,000 ug/L), PCE (1.2 ug/L), 1,1-DCE (100 ug/L), and 1,1-DCA (100 ug/L). No source for these VOCs were identified at the site.

In addition to the above identified sites, a large chlorinated VOC release occurred at the Former Omega Chemical facility located approximately 2 miles to the northeast of the ACC site. That release has resulted in a regional groundwater VOC plume that has been interpreted to extend beneath and past the site towards the southwest. The Former Omega Chemical facility has been identified as a US EPA National Priority List (Superfund) site.

2.0 STUDY AREA INVESTIGATIONS

2.1 Site Characterization Field Activities

The activities undertaken to further characterize the site since the BEII Subsurface Investigation Phase I Report of Findings (2002 Soil Vapor Survey) will be the focus of this section. However all subsurface characterization activities that have occurred at the ACC site including soil vapor, soil matrix and groundwater will be discussed. Results of those investigations are discussed in Section 4, and the data is presented in Tables 1, 2, and 3. The information presented in the following sections are based on reports submitted by SCS from 1993 to 2000, and BEII from 2000 to 2004.

2.1.1 Surface Features

At the time of operation the surface of the facility was paved with asphalt or concrete. Exceptions to this were portions of gravel base along the railroad spur, along the western and northern periphery of the site, and a gravel base strip to the south adjoining the spur easement. Three buildings were present at the facility, two offices and a laboratory. A canopy covered a central portion of the site, under which the packaging production line existed. Railroad spurs were located along the northern and western boundaries of the site. A loading platform and ramp were associated with the offloading of chemicals delivered via trucks or the railroad spurs. Peripheral areas of the site were used for temporary empty drum storage. Figure 3 is from SCS Engineers (1993) and shows historic surface and subsurface features that were present during the operation of the facility.

There were thirty-four USTs on site, predominantly along the southern and central portions of the property, along with an underground waste water tank. In addition to the USTs, there were also nine ASTs on site. Four of the ASTs were reported to be compartmented steel tanks oriented horizontally near the western corner of the site. Four ASTs were vertical steel transfer tanks located in the central canopy area, two by the drumming station, and two by the small container filling area. The transfer tanks were used as temporary chemical holding tanks during filling of containers, and were reportedly not used for storage. One vertical steel transfer AST was located along the southwest fenceline, but was reportedly not used.

There were five designated storage areas for palletized drums containing chemicals. One storage area was located along the southern fence line, one was located immediately east of the central canopy area and the remaining three storage areas were located in the northern portion of the site. Two palletized small package or container storage areas were located immediately east of the canopy area, and along the eastern boundary of the site. There were

three empty drum/container storage areas on site. One was located in the northeast corner of the site, and the other two were located in the southwest corner of the site. Chemicals stored in drums and containers include those previously listed. Two parallel railroad spurs were located along the northwestern boundary of the site. Loading areas were associated with the offloading of chemicals delivered via truck or rail car.

The site also had three spill drains, one located near the north central truck loading ramp, the second was located in the south central portion of the site east of the canopy area, and a third was located immediately east of the canopy area between USTs No. 24 and 25 (Figure 4 shows the locations of those three spill drain). Surface drainage for the central part of the site was towards these drains. Subsurface piping led from the first two drains to the underground waste water tank. Subsurface piping for the third drain ran into a portion of the south central drain, which consisted of a subsurface concrete trap (dimensions of 2 ft. x 2 ft, x 2 ft.), from which a single subsurface pipeline (approximately 1 foot below ground surface) led to the underground waste water tank. The entrance to this pipeline within the trap was fitted with a plug, which was removed when the trap filled to allow flow to the waste water tank. Exceptions to the central drainage pattern were the northeast portion of the site where drainage was towards Sorensen Avenue, and the southeast (office area) and extreme western and southern portions of the site where surface drainage was towards an unlined drainage channel, south of the site. Gravel base areas were located away from the UST area. The third drain was reported to have been removed in 1982 when the two tanks were installed.

2.1.2 Contaminant Source Investigations

All of the contaminant source area investigations were performed prior to 2002. Since 2002 all investigations were focused on delineating and further characterizing the extent of VOC contamination in the vadose zone and groundwater. The discussion in this section will address activities associated with potential source area investigations, while site characterization investigations will be discussed in the following section. Details and results of the investigations are presented and discussed in Section 4.

In late 1985, the Los Angeles Department of Public Works (DPW) requested tank integrity testing and sampling of subsurface soils at the facility as an UST permitting requirement. Tank integrity tests and inventory records initiated in 1985 did not indicate any leaking USTs at the site. In April 1986, SCS submitted a workplan for subsurface investigation to DPW. Following receipt of comments from DPW, a modified workplan was resubmitted in March 1989. In January 1990, the first site investigation was conducted. Eight exploratory borings (BH-1 to BH-8) were drilled on-site at depths ranging from 5 to 50 ft bgs, and soil samples were collected at 5-foot depth intervals. Soil samples were analyzed for volatile organic compounds (VOCs) using EPA Method 8240.

A shallow soil excavation was conducted in April 1990, around the south central spill drain and concrete trap, where elevated VOC concentrations were detected in the January 1990 investigation. The excavation revealed that subsurface piping originally leading from the abandoned third drain had been severed approximately 2 ft east of the concrete trap. This apparently had allowed runoff water collected in the trap from the south central drain to

discharge into soils through the break in the pipeline. The piping was approximately 1-foot below ground surface. The excavation did not extend beyond approximately 3 ft bgs due to the proximity of USTs.

In October 1992, seven near surface (6 to 18 inches bgs) soil samples (RR-1 through RR-7) were collected along the railroad spur lines in the northwest portion of the site where releases associated with delivery and off-loading of product are known to have occurred. Samples RR-1 and RR-2 were a shallow-deep pair collected at the same location, RR-3 and RR-4 were also a shallow-deep pair, as were RR-5 and RR-6. RR-7 was a single shallow sample. Figure 4 shows the locations of soil borings, surface samples and groundwater well (MW-1) installed through 1992 by SCS Engineers.

In 1999 and 2001, EREMCO was contracted to remove and/or abandon in place the USTs that were used at the ACC site for product storage. Soils samples were collected at depths of approximately 15 feet bgs from beneath those USTs immediately following their removal or abandonment. A total of 46 soil samples were reportedly collected and analyzed for TPH and VOCs during the two removal activities.

2.1.3 Soil and Vadose Zone Investigations

In June 1990, SCS performed a soil investigation by advancing six borings (BH-9 to BH-14) from 20.5 ft bgs to 60 ft bgs. Soil samples were collected at 5-foot depth intervals. Analytical results are presented in Table 1 and discussed in Section 4.

Based on the presence of VOCs in soil samples collected during previous investigations, SCS conducted a preliminary soil vapor survey in January 1996. Vapor samples were collected at 23 locations (SV1 through SV23) from beneath the site at approximately 10 ft bgs and 22 ft bgs. The following year, SCS performed another soil vapor survey at the site in November 1997. Soil vapor samples were collected at twelve additional locations (SV24 through SV35) at 5 ft bgs. In addition, soil vapor samples were collected at 15 ft bgs in five of the twelve sampling locations. The survey was designed to cover the perimeter of the UST area and to overlap the southern boundary of the January 1996 soil vapor survey for comparative purposes. The spacing of the points was similar to that used in the previous soil vapor survey. Figure 5 shows the sampling point locations for both the 1996 and 1997 SCS soil vapor surveys. The 15-foot samples (located just below the depth of the UST bottoms) were to provide worst case soil vapor concentrations in the event of possible UST leakage.

In November-December, 2000, BEII performed a soil vapor survey at the site. A total of 36 soil vapor sample points, labeled SV1 through SV36, were selected by BEII and approved by the DTSC for analysis. Two discrete soil vapor samples were collected from each soil vapor sample point, one at 8 ft bgs and one at 20 ft bgs. SV1 was an exception since the first soil vapor sample was collected at 10 ft bgs instead of 8 ft bgs (See Figure 6 for BEII soil vapor sample locations SV-1 thru SV-36).

An additional soil vapor survey was conducted on the ACC property in January 2002 and on the adjacent  Liquide property in June 2002 to determine whether VOC contamination extended westward beyond the ACC property. A total of thirty (30) soil vapor sampling

locations were evaluated with soil vapor samples being collected at up to three discrete depths (5 ft bgs, 7 to 12 ft bgs, and 20 ft bgs). Figure 7 shows the locations of the 2002 soil vapor sampling points (SV-37 to SV-67).

As part of the June 2002 investigation, two soil borings, BSB-1 and BSB-2, were advanced on the ACC property to depths of 50 ft bgs and 30 ft bgs, respectively. In August 2002, seventy soil samples were collected from eight additional soil borings (BSB-3 through BSB-10) that were advanced on the ACC property to depths ranging from 40 ft to 45 ft bgs. In November and December of 2002, seven additional borings (BSB-11 through BSB-17) were advanced to a maximum depth of 49.5 ft bgs.

2.1.4 Groundwater Investigations

As part of the June 1990 site investigation, groundwater monitoring well MW-1 was installed near the southern property line. Groundwater was initially encountered at a depth of approximately 45 feet bgs, and the well was screened from 40 to 60 feet bgs. In 1993 and 1994, SCS performed further soil and groundwater investigations at the site as part of a Remedial Investigation (RI). According to the Feasibility Study Report for Operable Unit No. 1 (SCS, 1997), OU 3 (groundwater) was the focus of that RI. Soil samples were collected from nine borings, and five of the borings were converted to groundwater monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7. The screen intervals for those wells were 30 to 50 ft bgs, 29 to 49 ft bgs, 17 to 27 ft bgs, 20 to 30 ft bgs, and 34 to 55 ft bgs, respectively. No water was encountered in the boring initially designated as MW-5 and no well was installed.

In September 2000, Blaine Tech Services, Inc. (Blaine) gauged the six on-site monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-6, and MW-7) under the supervision of Blakely Environmental Investigations, Inc. (BEII). In November 2000, Blaine was contracted to perform groundwater sampling at the site. Depth to water and groundwater analytical data are presented in Table 2.

In June 2002, groundwater monitoring wells MW-8 and MW-9 were installed and screened from 30.5 to 40.5 ft bgs and 30.5 to 45.5 ft bgs, respectively. In November and December of 2002, twelve additional groundwater monitoring wells (MW-10 through MW-21) were installed. Wells MW-10, -11, -12, -16, -18, and -19 were screened within the “first water” zone (FWZ) at depths of 25 to 40 ft bgs, 30 to 40 ft bgs, 30 to 40 ft bgs, 29 to 46 ft bgs, 21 to 46 ft bgs, and 30 to 45 ft bgs, respectively. Wells MW-13, -14, -15, -17, -20, and -21 were installed in the upper portion of the deeper “A1 zone” and were screened at depths of 52 to 62 ft bgs, 55 to 65 ft bgs, 54 to 64 ft bgs, 56 to 66 ft bgs, 57 to 67 ft bgs, and 53 to 63 ft bgs, respectively. In addition, monitoring well MW-1 was abandoned because the screen extended across the two uppermost water-bearing zones. During this same time period, samples of groundwater and free product (FP) were also collected from monitoring well MW-8.

In June 2003, BEII installed five additional groundwater monitoring wells (MW-22 through MW-26) to further define the extent of VOC impacted soil and groundwater. During the same time, monitoring wells MW-2, MW-3, and MW-7 were abandoned. Monitoring wells

MW-22 and MW-26 were installed in the southwest portion of the site along the southern property line and are screened from 30 to 40 ft bgs to sample the FWZ. Groundwater monitoring wells MW-23, -24, and -25 were installed within the lower portion of the deeper A1 zone. MW-25 is located in the southwest portion of the site, MW-24 is located in the south-central portion of the site, and MW-23 is located in the northeast portion of the site. MW-23 and MW-25 are screened from 71 to 81 ft bgs, while MW-24 is screened from 67 to 77 ft bgs.

Figure 8 shows the locations of all the existing and former groundwater monitoring wells MW-1 thru MW-26. Figure 9 shows the location for all FWZ wells, while Figure 10 shows the deeper A1 Zone monitoring well locations. The typical screen length for a monitoring well completed in the FWZ is ten to fifteen feet in length. The well screens are set between 17 and 46 ft bgs, and the depth to groundwater (when present) is typically in the range of 30 to 40 ft bgs. Groundwater in the FWZ is considered to be unconfined. The typical screen length for a monitoring well completed in the upper A1 Zone is ten feet in length. Those well screens are set between depths of 52 to 67 ft bgs. The depth to groundwater in the upper A1 Zone has ranged from 36 feet to 53 ft bgs. Monitoring wells MW-23, -24, and -25 are considered ‘lower’ A1 zone monitoring wells. Their screen length is ten feet and they are set between depths of 67 to 81 ft bgs. Water levels in the lower A1 Zone wells have ranged from 34 feet bgs to 53 ft bgs. The water levels in the upper and lower A1 Zone wells have consistently been found to be above the tops of their corresponding screen intervals. This suggests that the groundwater being sampled in the upper and lower A1 Zone is under confined conditions.

2.1.5 Ecological Investigations

The site is located in a highly industrialized and developed portion of Santa Fe Springs, and no ecological investigations were reported to have been conducted at the site by any of the previous consultants.

3.0 PHYSICAL CHARACTERISTICS OF THE STUDY AREA

3.1 Overview of Characteristics of Study Area

The following sections discuss the physical characteristics of the study area, based on either site investigations or published sources.

3.1.1 Surface Features

The ACC site is located near the northern boundary of the Santa Fe Springs Plain within the Los Angeles Coastal Plain. The Santa Fe Springs Plain has a low, slightly rolling topography and the site lies at an elevation of approximately 150 feet above mean sea level. There is approximately 2 feet of relief across the site, sloping downward from south to north. The site is currently used as a storage facility for cargo containers, and vehicles. A small office trailer is located near the eastern boundary of the site along with a small structure that houses rest rooms and a break room. The site is paved with asphalt and/or concrete, although there are cracks and breaks in the surface paving around the site, and standing water has been observed in low areas during site visits. A soil vapor extraction (SVE) unit is located in the

western portion of the site and is reportedly connected to several vapor extraction wells located in the vicinity of the former solvent UST area. According to current property owner (Greve Financial), the SVE system is functional and operating on a regular basis and several quarterly SVE monitoring reports have been submitted to DTSC from the Leu Group. During recent site visits associated with quarterly groundwater sampling events DTSC staff have observed the SVE system to be shut down and non-operational.

3.1.2 Meterology

No meterological study was undertaken at the ACC site. However, a Harding Lawson report (1992) for the nearby McKesson property can be used to provide general meterological information that is probably reflective of conditions at the ACC site. The ACC site is located in the South Coast Air Basin (SCAB). Within the SCAB the principal and recurring windflow pattern is a daily sea breeze (onshore) and land breeze (offshore) circulation system that exists year round. However, there is a seasonality to the historic windflow patterns. During the summer, the onshore breeze is stronger and of greater duration than the offshore flow. However, during the winter, the offshore flow increases in strength and duration with a prevailing windflow from inland towards the ocean. When viewed over the long-term, the wind patterns show a distinct bi-modality, with a predominant wind flow direction coming from the south-southeast to south-southwest (onshore) and a weaker, but distinctive secondary wind flow direction from the east-northeast (offshore).

3.1.3 Surface Water Hydrology

Surface water in vicinity of the site is intermittent and primarily limited to runoff associated with precipitation and irrigation. The major surface water drainage is the unlined drainage channel that extends along the southern property line. This drainage channel flows to the east and serves as a discharge point for many industrial facilities located along its length.

3.1.4 Geology

The ACC site is located near the northern boundary of the Santa Fe Springs Plain within the Los Angeles Coastal Plain. The Santa Fe Springs area is underlain by the Santa Fe Springs-Coyote Hills anticlinal system, whose limbs dip gently to the northeast toward Whittier and to the southeast toward the Downey Plain. Consequently, the geologic units beneath the ACC site have been warped on a regional scale. The nearest major fault zones are the Whittier Fault Zone approximately 3.5 miles to the northeast, and the Newport-Inglewood Fault Zone approximately 11 miles southwest. As a result of the underlying structure, and location along the margin of the Los Angeles Basin, Santa Fe Springs is underlain by a major oil field that has been producing significant quantities of oil since the early 1900's, and during the 1920-1940's was one of the major oil producing fields in the United States.

Surficial sediments consist of fluvial deposits composed of interbedded gravel, sand, silt, and clay. Available data from California Water Resources Bulletin No. 104, (June 1961) indicate that surficial sediments may be Holocene and/or part of the upper Pleistocene Lakewood Formation. Bulletin 104 indicates that the Lakewood Formation generally ranges from 40 to 50 feet in thickness in the site vicinity. Frequent lateral lithologic changes are typical of the Lakewood Formation, with discontinuous permeable zones and considerable variation in particle size. Underlying the Lakewood Formation are stratified

deposits of sand, silty sand, silt, and fine gravel comprising the upper portion of the lower Pleistocene San Pedro Formation. The San Pedro Formation generally ranges from 700 to 800 feet in thickness in the site vicinity.

3.1.5 Site Specific Geology

Initial interpretations of the site specific geology by SCS Engineers reported shallow subsurface soils consisting of silty clay with some minor amounts of silt and sand to a depth of about 15 feet below ground surface (bgs). These were underlain by poorly sorted, coarse-grained sand and gravel to a depth of about 26 feet bgs. The top of a discontinuous perched aquifer, located in the northern part of the site, appears to correspond to this coarse zone. This water-bearing zone generally appears to be absent from the southern portion of the site. A less permeable silty clay zone, exists beneath the zone of sand and gravel. This zone continues to a depth of approximately 30 to 50 feet bgs. Within this zone are stringers of fine sand and silt.

With the collection of additional site soil data the subsurface geology was reinterpreted by Shaw Environmental and Infrastructure, Inc. (Shaw) in 2004. The revised interpretation by Shaw indicated that six distinct hydrostratigraphic units were beneath the site. The uppermost layer was designated “unit A”, and was considered “overburden” that consisted of a mixture of fill and silty sands to clayey silt. Beneath that is a well-defined clean sand that sometimes contains gravel which was designated “unit B”. Next is a fine-grained predominantly silt zone designated as “unit C1” which is underlain by a coarser-grained silty sand zone named “unit D”. Beneath that is “unit C2”, described as a clayey silt that can be clay-rich near the top, and more of a sandy silt at depth. The lowermost “unit E” is a clean coarse-grained sand that is considered the top of the regional aquifer system.

3.1.6 Hydrogeology

The site lies north of the Central Basin Pressure area in the Montebello Forebay Area, a division of the Central Ground Water Basin which extends over most of the Coastal Plain. Data from California Department of Water Resources Bulletin No. 104, Appendix A (June 1961) indicates that the Gaspur Aquifer is present in the Santa Fe Springs area. Bulletin 104 states that the Gaspur is a part of the basal coarse unit of Holocene deposits, and is found within old channels of the San Gabriel and other rivers. Locally in the Santa Fe Springs area the Gaspur may be approximately 40 feet thick. The underlying Gage aquifer is found within the upper Pleistocene Lakewood Formation. Data from Bulletin 104 indicate that the ACC site is located in an area in which portions of the Lakewood Formation are truncated by overlying Holocene beds. Because of this geometric relationship, the Gaspur may be in contact with the Gage or even the generally deeper underlying Hollydale aquifer, which is in the San Pedro Formation. The Hollydale aquifer is the uppermost regional aquifer in the San Pedro Formation. Bulletin 104 indicates that this aquifer averages approximately 30 feet thick in this area.

Within the Central Basin, aquitards generally separate major regional aquifers (Bulletin 104). The next aquifer below the Hollydale aquifer is the Jefferson aquifer, which is approximately 40 feet thick and has its base at about 175 feet bgs. Beneath the Jefferson aquifer is another aquitard, followed by the Lynwood aquifer, which is approximately 75

feet thick and has its base at about 275 feet bgs. Beneath the Lynwood aquifer is another aquitard, followed by the Silverado aquifer, which is approximately 200 feet thick and has its base at about 475 feet bgs. Beneath the Silverado is another aquitard, followed by the Sunnyside aquifer, which is approximately 275 feet thick and has its base at about 875 feet bgs. The Lynwood, Silverado, and Sunnyside aquifers are the major drinking water-producing aquifers in the region.

Two main water-bearing units were encountered during drilling at the ACC site. In addition, a shallow discontinuous unit, designated herein as the perched aquifer, was detected under the northern portion of the ACC site. This perched aquifer occurs within a sand and gravel zone at depths of approximately 20 to 25 feet bgs. This zone corresponds to ‘unit B’ (see Section 3.1.5), and is commonly dry and does not appear to be correlative with any regional aquifer. A less permeable clayey zone, which apparently acts as an local [redacted] itard, typically exists beneath the zone of sand and gravel. This clayey zone continues to depths of approximately 30 to 50 feet bgs across the site becoming sandier with depth. Within this clayey zone are stringers of fine sand and silt, and appears to reflect a gradual transition from clayey materials above, to sandier aquifer material below. This water-bearing unit, found below depths of approximately 35 feet bgs is called the “first water” and has been interpreted at various times to be the upper portion of the Gage or Gaspur / Hollydale aquifer. The regional Hollydale aquifer, starting at a depth of about 40 to 50 feet bgs, is referred to as the A1 zone, and has been correlated to hydrostratigraphic “unit E”.

[redacted] undwater flow direction in the regional aquifer (A1 zone) beneath the site generally reflects the regional west-southwesterly groundwater flow direction. However, groundwater flow in the ‘first water’ zone is much more transient and has been documented apparently flowing northward, southward and westward during different sampling events.

3.1.7 Demography and Land Use

The ACC site is bounded to the east by Sorensen Avenue, to the south by a Southern Pacific Railroad easement and drainage ditch, and the former McKesson Chemical Company property; to the northwest by Air Liquide Corporation, and to the north by Plastall Metals Corporation. The site vicinity is highly industrialized, with a mix of commercial, light and medium industries, although a few single-family residences are located within ½-mile of the site. The nearest residential area is located more than 2 miles west of the site.

4.0 NATURE AND EXTENT OF CONTAMINATION

4.1 Summary of Site Contamination

4.1.1 Soil

A complete listing of the soil analytical data is provided in Table 1.

A 1985 tank integrity test and inventory records did not indicate any leaking USTs at the site, however ten soil investigations, conducted from January 1990 to June 2003 detected soil contamination at several areas of concern (AOCs). These AOCs are at the following

locations: underground storage tank farm (USTs), the railroad (RR) tracks along the northwest border extending past the RR track to the former asphalt drum storage area along the northern boundary and the south central spill drain along the southeast corner of the operational pad off the canopy.

During the soil investigations, at least four hundred and five (405) soil samples were obtained across the ACC site at varied depths from surface down to groundwater. Fourteen VOC contaminants with elevated concentrations were found in on-site soils: BTEX (benzene, toluene, ethylbenzene, and xylenes), 2-Butanone (MEK), chloroethane, 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene, cis-1-2-dichloroethene (cis-1,2-DCE), 1,4-dioxane, vinyl chloride (VC), 4-methyl-2-pentanone (MIBK), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), 1,2,4-trimethylbenzene. Five contaminants identified as contaminants of concern were found as listed:

TABLE 4.1 Soil Matrix Contaminants of Concern		
Constituent	Maximum Concentration (ppb)	Sample ID/Location/Date
PCE	2,300,000 ; 827,000 (Total VOCs in BSB6 at 5' 1,705,750)	RR5- 6 to 18 inches bgs/railroad tracks/October 1992 ; BSB 6 at 5'/north end of RR tracks/August 2002
TCE	105,000 (Total VOCs in BSB6 at 34' 571,620)	BSB6 at 34' below ground surface (bgs)/ north end of RR tracks/August 2002
1,1,1-TCA	19,000,000 (Total VOCs in RR3 19,036,700)	RR3- 6 to 18 inches bgs/RR tracks/October 1992
1,1-DCE	55,200 (Total VOCs in MW19 at 14.5' 5,711,300)	MW 19 at 14.5' bgs/RR tracks/November 2002
VC	276 (Total VOCs in MW16 at 27.5' 1,428)	MW 16 at 27.5' bgs/northeast corner of northern border/November 2002

4.1.2 Soil Vapor

A complete listing of the soil vapor analytical data is provided in Table 3.

Four on-site soil vapor surveys were conducted from January 1996 to January 2002 and one off-site in June 2002. A total of ninety-four (94) on-site and 7 off-site soil vapor samples were obtained across and north of the ACC site. The sample depths ranged from 5 to 22 feet bgs. While significant numbers of vapor samples were reported as 'Not Analyzed' and a large percentage of soil vapor samples had extremely high detection limits sufficient sample results were reported to identify a uniform presence of vapors across the site and two AOCs: the location where the spill drain emptied into the waste tank, and near the railroad tracks which run along the northwest boundary of the site. Eleven VOC contaminants with elevated concentrations were reported in vapors: BTEX (benzene,

toluene, ethylbenzene, and xylenes), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1-2-dichloroethene (cis-1,2-DCE), vinyl chloride (VC), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA) and trichloroethene (TCE). Five contaminants identified as contaminants of concern are found as listed:

TABLE 4.2 Soil Vapor Contaminants of Concern		
Constituent	Maximum Concentration (ug/l)	Sample ID/Location/Date
PCE	3,100 (Total VOCs in SV20 at 20' 25,900)	SV20 at 20'/railroad tracks/November 2000
TCE	2,700 (Total VOCs in SV16 at 20' 74,400, in SV36 at 20' 108,430)	SV16 and SV36 both at 20'bgs/SV16 railroad tracks, SV36 40 feet south of railroad track/ November 2000
1,1,1-TCA	90,000 (Total VOCs same as above)	SV36-20 feet bgs/40 feet south of railroad track / November 2000
1,1-DCE	9,400 (Total VOCs same as above)	SV36 at 20' bgs/40 feet south of railroad track / November 2000
VC	325 (Total VOCs in SV6 at 5' 5114)	SV6 at 5' bgs/south of the USTs/ January 96

4.1.3 Groundwater

A complete listing of the groundwater analytical data is provided in Table 2.

Initial groundwater investigations included one groundwater monitoring well in 1990 and five groundwater monitoring wells in 1994. These wells were located at the south, west and north boundaries of the site and were screened in a variety of depths ranging from 17-60 feet bgs. Nineteen additional groundwater monitoring wells were installed across the site in 2002 and were screened in a variety of depths ranging from 21-81 feet bgs. Groundwater monitoring data from 1994 to March 2006 were considered in the preparation of this RI Report. A total of 390 groundwater samples collected from monitoring wells across the site have been evaluated. Significant samples of groundwater were not analyzed due to the presence of free product and a large percentage of groundwater samples had high detection limits. Beneath the ACC site, depth to first water can be found at approximately 35 feet bgs. Groundwater, in both the shallow regional Hollydale and overlying perched aquifer(s) are contaminated with elevated concentrations of VOCs, including BTEX (benzene, toluene, ethylbenzene, and xylenes), 2-Butanone (MEK), chloroethane, 1,1-dichloroethane (1,1-DCA), cis-1-2-dichloroethene (cis-1,2-DCE), 1,4 dioxane, methylene chloride, 4-methyl-2-pentanone (MIBK), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), 1,2,4-trimethylbenzene and others, based upon sample data from on-site investigations. A number of these same VOCs have also been reported in the regional aquifer both up- and down-gradient of the ACC site. Table 2 is a compilation of all groundwater analytical data reviewed for this RI Report. Five contaminants identified as contaminants of concern are found as listed:

TABLE 4.3 Groundwater Contaminants of Concern		
Constituent	Concentration (ug/l)	Sample ID/Location/Date
PCE	5,370 (Total VOCs 18,730)	MW3/Southwest corner along boundary/Feb 94
TCE	14,300 (Total VOCs 79,149)	MW4/Northeast border/Feb 94
1,1,1-TCA	114,000 (Total VOCs 166,205)	MW6/RR tracks/Feb 94
1,1-DCE	12,580 (Total VOCs 57,960)	MW8/Ten feet north of canopy/June 05
VC	12,700 (Total VOCs 24,994)	MW3/southwest corner of southern border/December 2002

4.2 Contaminant Sources

4.2.1 Soils and Vadose Zone

Eighty soil samples were obtained in January 1990 and analyzed for VOCs using EPA Method 8240. Eleven VOCs were detected: benzene, 1,1-DCA, 1,1-DCE, ethylbenzene, MEK, methyl isobutyl ketone (MIBK), PCE, toluene, 1,1,1-TCA, TCE, and xylenes. This investigation identified an AOC in the vicinity of the south central surface spill drain with a total VOC concentration of 38,679 ppb in soil samples collected between 5 and 50 feet bgs in BH-6.

The April 1990 investigation and excavation around the south central spill drain and concrete trap revealed that subsurface piping originally leading from the abandoned third drain had been severed approximately 2 feet east of the concrete trap. Soils near the break were discolored, and hydrocarbon odors and OVA readings ranging from 400 to 700 parts per million (ppm) were noted during excavation. Two grab samples (S-1 and S-2) were collected approximately 2 to 3 feet bgs near the pipeline break. Selected VOC concentrations in those samples (S1, S2) included the following VOCs, respectively, PCE (32,000 ppb, 33,000 ppb), 1,1,1-TCA (6,400 ppb, ND), TCE (9,900 ppb, 5,100 ppb) and a highest total VOC concentration was found at 1,018,300 ppb in S-1.

The June 1990 focused investigation collected 54 soil samples at depths ranging from 5 feet bgs to 60 feet bgs around the perimeter of the UST farm. Thirteen different VOCs were identified including acetone, benzene, 1,1-DCA, 1,1-DCE, ethylbenzene, MEK, methyl isobutyl ketone (MIBK), methylene chloride, PCE, toluene, 1,1,1-TCA, TCE, and xylenes. Analytical results indicated the highest elevated concentrations for selected VOCs are as follows: 55,000 ppb acetone (BH-14 at 35 ft bgs), 210 ppb 1,1-DCE (BH-11 at 30 ft bgs), 48,000 ppb PCE (BH-14 at 20 ft bgs), 28,000 ppb 1,1,1-TCA (BH-14 at 20 ft bgs) and 8,700 ppb TCE (BH-14 at 5 ft bgs). The highest total VOC concentration of 1,488,600 ppb was found in BH-14.

The October 1992 focused investigation collected seven soil samples 6 to 18 inches bgs. along the railroad spur lines in the northwest portion of the site, southwest of the tank truck loading ramp, north of the spill drain at the east end of the tank truck loading ramp, northeast end of the railroad spur at the former asphalt drum storage area and approximately midway between the spill drain and the railroad spur. Analytical results indicated highest elevated concentrations for selected constituents are as follows: 101,000 ppm total petroleum hydrocarbons (TPH) [RR-3]), 3,100,000 ppb acetone (RR-6), 2,300,000 ppb PCE (RR-5), 19,000,000 ppb 1,1,1-TCA (RR-3) and 420,000 ppb TCE (RR-3). The highest total VOC concentration of 19,036,700 ppb was found in RR-3.

In January 1996, a soil vapor survey was conducted beneath the ACC site at approximately 5 ft bgs and 15 ft bgs. Laboratory analysis identified maximum soil vapor concentrations of 1,1,1-TCA at 4,316 ug/l with detectable concentrations of 1,1-DCE, TCE, methylene chloride, toluene, PCE and xylenes. In June 1996, a soil vapor extraction test was conducted at two depths (10 feet bgs and 22 feet bgs) using one vapor extraction well (E-1) and three monitoring wells (VP-1, VP-2, and VP-3). The maximum radii of influence from the various extraction units used were measured as 35 feet at 10 ft bgs and 80 feet at 22 ft bgs.

In November 1997, a soil vapor survey collected thirty soil vapor samples at 5 and 15 feet bgs. These samples were analyzed using EPA Methods 8010, and 8020 and detected seventeen different volatile halogenated and aromatic hydrocarbons in soil vapor. The soil vapor survey identified maximum VOC contaminants northwest of where the spill drain emptied into the waste tank at the northwest corner of the operation pad (7,520 ug/l) and near the railroad tracks which run along the northwestern boundary of the site where a rail tanker reportedly had an accidental release (5,879 ug/l). Figure 5 shows the interpreted isoconcentration contours for total chlorinated hydrocarbon compounds at 5 ft below grade.

In 1999, a UST removal and tank abandonment collected sixteen soil samples at depths of approximately 15 feet bgs from beneath and adjacent to the removed tanks. Total petroleum hydrocarbon and nineteen different VOCs were identified in the surrounding soil including: acetone, benzene, 1,1-DCA, 1,1-DCE, ethylbenzene, MEK, methyl isobutyl ketone (MIBK), 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, isopropylbenzene, n-butylbenzene, sec-butylbenzene, toluene, cis-1,2-DCE, PCE, 1,1,1-TCA, TCE, naphthalene and xylenes. Analytical results indicated the highest elevated concentrations for selected VOCs are as follows: 29,900 ppb acetone (23SPA at 15 ft bgs), 9,760 ppb PCE (19SPA at 15 ft bgs), 13,500 ppb 1,1,1-TCA (23SPB at 15 ft bgs) and 29,000 ppb TCE (23S PB at 15 ft bgs). The highest total VOC concentration of 4,098,400 ppb was found in G6.

In November-December, 2000, a soil vapor survey collected samples at thirty-six locations across the site with a focus on the north and south borders. The samples were collected at 8 and 20 feet bgs. Nine selected contaminants were reported in soil vapor: benzene, 1,1-DCA, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, toluene, TCE, PCE, ethylbenzene and xylene. Relatively low level concentrations of VOCs were in the silty clay soils at 8 ft bgs and significantly higher concentrations were detected in the sandy soils at 20 ft bgs. The maximum total VOC concentrations for an individual sample from 8 feet bgs was 4,315 ug/L

(SV17), while the maximum total VOC concentrations for an individual sample from 20 feet bgs was 108,430 ug/L (SV36). Figure 6 shows the locations of these sample points and Table 3 the sample results.

In 2001, a UST removal and tank abandonment collected thirty soil samples at depths of approximately 15 feet bgs from beneath and adjacent to the removed tanks. Total petroleum hydrocarbons and seventeen different VOCs were identified in the surrounding soil including: acetone, 1,1-DCA, , ethylbenzene, MEK, methyl isobutyl ketone (MIBK), 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, isopropylbenzene, n-butylbenzene, p-isopropyltoluene, toluene, PCE, 1,1,1-TCA, TCE, naphthalene and xylenes. Analytical results indicated the highest elevated concentrations for selected VOCs are as follows: 118,000 ppb acetone (B24 at 15 ft bgs), 411,000 ppb PCE (G6 at 15 ft bgs), 540,000 ppb 1,1,1-TCA (G6 at 15 ft bgs) and 44,200 ppb TCE (G1 at 15 ft bgs). The highest total VOC concentration of 4,098,400 ppb was found in G6.

In January and June 2002 additional soil vapor surveys were conducted. Vapor samples were obtained from twenty-two locations on the ACC property and seven locations off property at the adjacent Air Liquide site. Samples were obtained at a variety of depths: 5, 7, 8, 10, 12, and/or 20 feet bgs. Eleven selected contaminants were reported in soil vapor: benzene, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, ethylbenzene, PCE, 1,1,1-TCA, TCE, toluene, xylene, and vinyl chloride. Although a significant number of samples were not analyzed, a maximum concentration of 9,347.7 ug/l total VOCs were identified on the Air Liquid property at twenty feet bgs (SV-64). As with the previous soil vapor survey, low concentrations (maximum total VOCs 477.3 ug/l in SV-60) were reported in the 8 ft bgs soil vapor samples while the highest concentrations were reported in the 20 ft bgs samples (maximum total VOCs 9,347.7 ug/l in SV-64). Figure 7 shows the locations of these sample points and Table 3 the sample results.

Three additional soil investigations were conducted in June, August and November 2002. These investigations collected one hundred and forty-nine soil samples from sixteen soil borings across the site. The sample depths ranged from surface to 50 feet bgs. During these investigations ninety-three soil samples were collected out of the borings for the installation of monitoring wells MW-8 through MW-19. Twenty-eight selected contaminants were reported in soil: TPH, acetone, MIBK, MEK, PCE, TCE, VC, 1,1-DCE, 1,1-DCA, cis-1,2-DCE, 1,1,1-TCA, 1,1,2-TCA, benzene, toluene, ethylbenzene, xylene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, iso-propylbenzene, n-propylbenzene, n-butyl benzene, 2-hexanone, vinyl acetate, 1,2-dibromo-3-chloropropane, 2-chloroethyl vinyl ether, chloroethane, methylene chloride and naphthalene. Analytical results indicated the highest elevated concentrations for selected VOCs are as follows: 173,000 ppb acetone (BSB6 at 10 ft bgs), 55,200 ppb 1,1-DCE (MW-19 at 14.5 ft bgs), 760,000 ppb PCE (BSB17 at surface), 4,150,000 ppb 1,1,1-TCA (MW-19 at 19.5 ft bgs) and 105,000 ppb TCE (BSB6 at 34 ft bgs). The highest total VOC concentration was 5,711,300 ppb at 14.5 feet bgs in MW-19. All of the soil samples collected during the drilling of MW-10 contained elevated concentrations of VOCs.

In June 2003, five additional groundwater monitoring wells (MW-22 through MW-26) were installed to further define the extent of VOC impacted soil and groundwater. During the same time, monitoring wells MW-2, MW-3, and MW-7 were abandoned. The DTSC could find no soil sampling analytical data for groundwater wells MW-22 through MW-26. Therefore the presence or absence of soil contamination within those borings cannot be discussed. However, each of those wells were drilled near previously advanced soil borings or monitoring well locations. MW-22 was located within a few feet of MW-2, MW-23 was approximately 30 feet south of MW-7, MW-24 is located approximately 15 feet east of MW-21, MW-25 is about 15 feet west of MW-15, and MW-26 is immediately next to MW-3.

Figures 11 through 15 show the total VOC concentrations for soil samples collected and analyzed during the drilling of each of the twenty-six groundwater monitoring wells. Figure 11 shows the total VOC concentration for all soil samples from each boring, between the surface and a depth of 10 feet bgs. Figure 12 shows the total reported VOC concentration for all soil samples in each well, collected between 10 and 20 feet bgs. Figures 13, 14, and 15 show the total reported VOC concentrations for all soil samples from each well between the depths of 20 to 30 feet bgs, 30 to 40 feet bgs, and deeper than 40 feet bgs, respectively. A notation of NA indicates that no analytical data was identified during our review of the DTSC files.

4.2.2 Groundwater

In June 1990, monitoring well MW-1 was installed along the south-central property boundary at 40-60 feet bgs. One groundwater sample was taken. VOCs identified above their respective drinking water maximum contaminant levels (MCLs) in the ground water sample are listed with the highest concentrations noted: benzene (10 ppb), 1,1-DCA (21 ppb), 1,1-DCE (270 ppb), PCE (100 ppb), TCE (210 ppb), and trans-1,2-DCE (240 ppb). Toluene, 1,1,1-TCA and xylenes were detected at concentrations below their respective MCL or state recommended action level (AL).

In 1993 and 1994 monitoring wells MW-2, MW-3, MW-4, MW-6, and MW-7 were installed. Three of the new wells (MW-2, MW-3, and MW-7) were screened across the shallow groundwater zone into the regional A1 zone aquifer (30-50 ft bgs, 29-49 ft bgs, and 34-55 ft bgs, respectively), while MW4 and MW6 were screened from 17-27 ft bgs and 20-30 ft bgs, respectively, in the discontinuous perched and shallow aquifer(s). MW-1, MW-2 and MW-3 were located along the southern property boundary, while MW-4, MW-6 and MW-7 were located along the northern and northwestern boundary of the site. Groundwater samples identified elevated concentrations of the following nine (9) constituents in nearly every well, the highest concentration is listed with its associated well: benzene (795 ppb in MW6), 1,1-DCA (2,260 in MW6), 1,2-DCA (1,140 ppb in MW6), 1,1-DCE (2,800 ppb in MW3), ethylbenzene (1,910 ppb in MW6), methylene chloride (21,400 ppb in MW6), PCE (5,370 ppb in MW3), toluene (15,300 ppb in MW6), 1,1,1-TCA (114,000 ppb in MW6) and TCE (14,300,ppb in MW4).

In September 2000, six on-site monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-6, and MW-7) were gauged and free product (FP) was identified in monitoring well MW-4 at 0.21-feet in thickness. Approximately 0.5 liters of FP were removed from the well. During

groundwater monitoring activities on November 30, 2000, monitoring wells MW-4 and MW-6, located along the northern property boundary, were not sampled due to insufficient water and the presence of FP. FP was also identified in MW-1 during sample collection, after well purging had been completed. Laboratory analysis identified acetone, MEK, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, ethylbenzene, methylene chloride, PCE, toluene, TCE, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, vinyl chloride, and xylenes within the groundwater samples. Analysis for metals and SVOCs identified concentrations below allowable levels for those constituents.

In June 2002, groundwater monitoring wells MW-8 and MW-9 were installed to 40.5 ft bgs and 45.5 ft bgs, respectively. At that time, FP was identified in MW-8, and MW-9 was reported to contain five VOCs including benzene (90.8 ppb), 1,1-DCA (1,210 ppb), 1,1-DCE (1,540 ppb), cis-1,2-DCE (612 ppb), and PCE (122 ppb). Figure 16 shows the total reported VOC concentrations in monitoring wells MW-1 to MW-4, and MW-6 to MW-9 for June 2002.

In November and December of 2002, samples of groundwater and FP were collected from monitoring well MW-8. Eighteen (18) VOCs were reported in the FP sample. These included 1,1-DCE, 1,1-DCA, cis-1,2-DCE, 1,1,1-TCA, TCE, isopropylbenzene, toluene, PCE, ethylbenzene, xylenes, n-propylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, 1,2-dichlorobenzene, n-butylbenzene, naphthalene, acetone, and MEK. The same constituents were detected in the groundwater sample along with vinyl chloride, although at concentrations two to four orders of magnitude lower than those in the FP sample. The three highest VOC concentrations in the FP sample were 37,400,000 ppb 1,1,1-TCA, 27,100,000 ppb 1,2,4-trimethylbenzene, and 19,000,000 ppb xylenes. The three highest VOC concentrations in the groundwater sample were 75,500 ppb 1,2,4-trimethylbenzene, 66,600 ppb 1,1-DCA, and 54,000 ppb 1,1,1-TCA.

In June 2003, five additional groundwater monitoring wells were installed (MW-22 through MW-26) to further define the extent of VOC impacted soil and groundwater. During the same time, monitoring wells MW-2(replacement well 22), MW-3 (replacement well 26), and MW-7 were abandoned. In the initial sampling event, three of the five wells (MW-23, MW-24, and MW-25) were reported to contain only low concentrations (2.3 to 20.4 ppb) of a few VOCs (PCE and TCE). Monitoring well MW-22 was reported to contain six VOCs (13.5 ppb benzene, 1,200 ppb 1,1-DCA, 155 ppb 1,1-DCE, 3,860 ppb cis-1,2-DCE, 113 ppb methylene chloride, and 88.9 ppb vinyl chloride). In comparison, groundwater from MW-26 contained fourteen VOCs, including acetone, benzene, MEK, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, ethylbenzene, methylene chloride, MIBK, naphthalene, PCE, 1,1,1-TCA, TCE, and xylenes. In addition to containing a greater number of VOCs, the concentrations in MW-26 were also significantly higher. Those VOCs reported to exceed 1,000 ppb at the initial groundwater sampling event include acetone (34,000 ppb), MEK (11,300 ppb), 1,1-DCE (2,340 ppb), ethylbenzene (1,620 ppb), methylene chloride (10,600 ppb), MIBK (9,250 ppb), PCE (1,920 ppb), 1,1,1-TCA (1,250 ppb), TCE (1,330 ppb), and xylenes (1,050 ppb). Both MW-22 and MW-26 are considered “first water” monitoring wells, while MW-23, MW-24 and MW-25 are screened in the “lower A1 zone” of groundwater.

Since the beginning of 2002, quarterly groundwater sampling has been ongoing at the ACC facility. Figure 16 thru Figure 24 shows the total VOC concentrations present in groundwater during the June sampling events from 2002 through 2006, in both the shallow groundwater zone and the deeper regional A1 Zone aquifer. During this time period, a number of wells have regularly not been sampled, either due to insufficient water present in the well, or because of the presence of FP. Occasionally there have also been inaccessibility issues resulting from on-site activities. Since quarterly groundwater sampling was initiated in 2002, wells MW-4 and MW-6, located along the north and northwest property boundary, respectively, have not been sampled due to either the presence of FP (Feb-02 to Dec-04) or lack of water (Mar-05 to Jun-06). Both of those wells are located in areas where historic releases associated with the railroad spurs were known to have occurred while the site was an active chemical repackaging facility. MW-4 and MW-6 are also screened at depths corresponding to the shallowest “perched” groundwater zone.

Reported lack of water has been the cause of no sampling in several other wells on the ACC site. MW-22, located along the southern property boundary, close to the former MW-2 location, has been reported to contain an insufficient volume of water six of the last twelve quarterly sampling events, the most recent of which was December 2005. Insufficient water volume was reported in well MW-26 during the December 2003 and December 2004 sampling events. MW-26 is located near the east end of the site, adjacent to the location of former MW-2. When groundwater was sampled, both MW-22 and MW-26 had elevated concentrations of VOCs reported.

FP continues to prevent sampling of monitoring wells. Monitoring well MW-8 was not sampled from the time it was installed in June 2002 until the March 2005 sampling event due to the presence of FP. MW-8 is located in the area directly north of the former UST locations. From March 2004 until March 2005, MW-10 was also not sampled due to the presence of FP. MW-10 is located near the center of the site between the former main centrally located UST area and the smaller easternmost solvent storage area where UST #33 and #34 were located. MW-16 was also not sampled from December 2003 through December 2004 due to FP being present in the well. MW-16 is located in the northernmost portion of the site. Free product has also been reported in MW-18 and no groundwater sampling has occurred since March 2004. Similarly, MW-19 has not been sampled since June 2003 due to the reported presence of FP. MW-18 is located very close to the former location of UST #1, while MW-19 is located very close to MW-6 along the former railroad spur at the northern property boundary. All of the wells listed above that have been impacted by the presence of FP have been screened within either the shallowest “perched” water zone (MW-4 and MW-6), or within the “first water” zone (MW-8, MW-10, MW-16, MW-18, and MW-19). An exception to this is MW-21, which is screened in the “A1 zone” but was not sampled from September 2004 until the June 2006 sampling event due to the presence of FP. MW-21 is located within 10 feet of MW-18 and right next to the location of former well MW-1. It is feasible that the presence of FP in this well is the result of downward migration of FP from the “first water” zone into the “A1 zone” via the former MW-1, which was screened across both water-bearing units. This is further supported by the presence of FP in MW-18 which is located within about 15 feet of MW-21. None of the other “A1 zone” monitoring wells report FP detections. It should be noted that in a number of instances the

FP reported was only a sheen observed on the surface of the water. However, without analytical data, it is not possible to know whether the reported FP reflects heavy contamination or a minor contribution from soil due to fluctuating water levels and/or slow desorption of FP from the soil.

4.2.3 Surface Water and Sediments

The occurrence of surface water at the site is limited to standing water that accumulates within shallow depressions on the paved surface of the site. These depressions have been observed where the pavement has become cracked or broken. No open areas of exposed sediment are present on the surface as the entire site is paved or has structures on top of it.

4.2.4 Air

Since the site is entirely paved, it is uncertain whether any vapor releases to the atmosphere have occurred or are occurring. No air monitoring for vapor releases from the subsurface are known to have been conducted at the ACC site.



CONTAMINANT FATE AND TRANSPORT

The fate and transport of the VOCs detected in soil, soil vapor and groundwater beneath the site are influenced in part by the physical, chemical, and biochemical properties of the compounds, and in part by the underlying geology and the physical properties of the sediments beneath the site. At the ACC site, the identified VOCs include both those constituents lighter than water, called light non-aqueous phase liquids or LNAPL, (such as BTEX and other gasoline-related compounds) and those denser than water, called dense non-aqueous phase liquids or DNAPL (such as chlorinated solvents). In addition to density differences, the identified VOCs also have different properties with respect to their viscosities relative to water, vapor pressure, water miscibility, and ability to undergo biotransformations. All of these factors have played a role in the fate and transport of contaminants at the ACC site.

5.1 Routes of Contaminant Migration

When a release at or near the surface occurred, there were two primary modes of migration that the contaminant followed. Initially, the migration was predominantly vertically downward through the vadose zone with minimal lateral dispersion, particularly through coarse-grained sediments such as those that form units A and B beneath the site. Elevated concentrations of VOCs in soil may be localized at shallow depths in some borings but those same VOCs may have noticeably lower concentrations at the same depth in nearby borings. This was observed at several locations at the ACC site, for instance in BH-16, 1,1-TCA was reported at <50 ppb at 1 ft bgs and 55 ppb at 5 ft bgs. However, approximately 8 feet away, BH-17 was reported to contain 36,600 ppb 1,1,1-TCA at a depth of 1 ft bgs and 19,400 ppb 1,1-TCA at 5 ft bgs. In another example, borings BSB-08 and BH-14 (located about 7.5 feet apart) had TCE concentrations of <125 ppb and 8,700 ppb, respectively, at 5 ft bgs, and at 10 ft bgs the TCE concentrations were <250 ppb and 8,400 ppb, respectively.

The second mode of migration became more significant when the contaminant encountered a finer-grained strata, like unit C, or the capillary fringe and/or water table. Under those

conditions, lateral dispersion or a slowing in downward migration of the contaminant occurred, which resulted in the contaminant becoming elevated in those areas. An example is BSB-9 where elevated concentrations of 1,1-TCA are present in the 5 ft bgs and 8 ft bgs samples (36,500 ppb and 176,000 ppb, respectively), which consist of finer grained sediment. Samples collected from 15 to 24 ft bgs showed that the 1,1-TCA concentrations were significantly lower (between 2,380 ppb to 595 ppb) reflecting less entrainment in the coarser-grained sediments. The 1,1-TCA concentration then increased to 306,000 ppb at 27.5 ft bgs, which corresponded to the depth at which shallow groundwater was encountered. Below the shallow water table, the 1,1-TCA concentration was elevated (37,600 ppb) at a depth of 32.5 ft bgs which reflected the top of a fine-grained unit. From that depth down, significantly lower 1,1-TCA concentrations (35 ppb and 40 ppb) were reported within the fine-grained sediments at depths of 35 and 40 ft bgs, respectively. The lower concentrations indicate downward contaminant migration was slowed down by the fine-grained sediments.

Volatilization from VOCs entrained in soil and in groundwater is also a potential route for contaminant migration. The presence of VOCs in soil gas throughout the soil column is common when in close proximity to the source area. Higher soil gas concentrations are common in finer-grained sediments or organic-rich sediments where the VOC is trapped, whereas lower concentrations often occur in coarser-grained sediments since there is very little adsorption on the mineral grains. Higher concentrations of VOCs in soil gas are commonly reported directly above the water table, and are interpreted to be a result of volatilization from groundwater, especially if elevated concentrations are present in groundwater.

VOC contamination within soil and soil gas can be further influenced by fluctuating groundwater levels. Contamination present at the water table can be smeared upward or downward by changing water levels. Changing water levels can release or facilitate the movement of VOCs trapped in the soil matrix above or below the water table, temporarily increasing the measured VOC concentrations in groundwater, or possibly releasing minor quantities of free product. This is represented by the sporadic occurrence of free product in groundwater. For example, in monitoring wells MW-8, MW-10 and MW-16, free product was present when groundwater levels were low, however since water levels have risen, free product has not been reported.

Once VOCs are present within the water column, they tend to dissolve into groundwater and spread out laterally and vertically by advective, dispersive, and diffusive mechanisms. After VOCs have dissolved into groundwater, the local groundwater flow regime can control their distribution throughout the saturated zone. Additional factors that can impact the migration of contaminants are subsurface geologic features such as bedding planes or the presence of buried stream channels. Changes in vertical permeability are often associated with bedding planes and as such, their presence can influence vertical and lateral migration of released VOCs. Likewise, groundwater flow may be preferential within buried stream channels and permit a more rapid transport of contamination along those preferred conduits. This type of preferential flow could also cause relatively narrow zones of high concentrations to be present in a down gradient direction, and lower concentrations to be observed in cross-gradient directions. Chlorinated VOCs can also continue to move vertically if there is

sufficient permeability or conduits present for downward migration. There is evidence that some of the above has occurred at the ACC site. VOC concentrations in groundwater from A1 zone monitoring wells MW-14, MW-15 and MW-21 have all increased since they were installed. MW-21 and MW-15 are located close to the locations of former monitoring wells MW-1 and MW-2, respectively, which were screened across the shallow FWZ and deeper A1 zones. Those wells could have provided a route for VOCs to move downward from the FWZ to the A1 zone. MW-14 is located downgradient from an identified source area (the railroad tracks), and three shallow FWZ wells (MW-06, MW-11 and MW-19) which contained either FP or elevated concentrations of VOCs.

5.2 Contaminant Persistence

As with the fate and transport of VOCs, their persistence is related to the physical, chemical, and biochemical properties of the compounds such as their vapor pressure, water miscibility, and ability to undergo biotransformations. The higher the vapor pressure, the more readily a compound will volatilize, likewise, compounds with low vapor pressures do not volatilize easily and will persist for a longer time. The miscibility of a compound, which is the ability to mix or dissolve into water, can have a significant impact on how long a contaminant can persist and how far a contaminant can migrate. Contaminants that mix easily or that are very miscible, like ~~ethylene~~, tend to dissolve into and move with the water and therefore can be transported long distances from their source in a relatively short time. However, other contaminants that are not miscible in water, such as heavy oils or mixtures of heavy oils and metals, are commonly not transported very far from their release areas. Similarly, contaminants that tend to bind to or form complexes with soil or organic material in soils are less likely to be transported far from their release areas. In addition, different VOCs have different rates of degradation and consequently, some VOCs may persist longer than others under the same geochemical conditions. For instance, PCE and TCE degrade more slowly than vinyl chloride or DCE. Therefore, it is more likely to see a persistence of PCE rather than DCE. However, since DCE can be a degradation product of PCE and TCE, the concentration of DCE may appear persistent or increase over time since it is being replenished by the degradation of PCE, which was one of the constituents originally identified as having been released at the site.

In addition to the various properties of the chemicals themselves, the local geology and hydrogeology can have a major influence on the fate and transport of a contaminant. Fine-grained sediments slows down the vertical migration of VOCs, but at the same time can cause them to migrate laterally more than might be expected. Fine-grained sediments or sediments with high organic contents can also act as a trap and hold contaminants, releasing them slowly over time, which increases their persistence and may result in a long-term problem. Consequently, VOCs may pass quickly through coarse-grained sediments with very little retention and as a result there may be minimal evidence that the VOC had ever been present in those sediments. However, when those same VOCs encounter a finer-grained sediment layer, there may be an accumulation of the compound resulting in significantly higher concentrations. This could explain why, in several areas of the site, there is not much evidence for the presence of VOCs in the shallow coarser-grained sediments, but in deeper fine-grained sediments elevated VOC concentrations are reported.

6.0 RISK EVALUATION

While a formal BHHRA has not been conducted for the ACC Site, a screening human health risk evaluation has been carried out for the primary chemicals of concern assuming that the exposure pathways driving the risk at this site is the inhalation of soil vapors intruding indoors from the sub-surface and the use of groundwater as a drinking water source. The risks and hazards from all other exposure pathways are insignificant. Details of this evaluation can be found in section 7.1.3.

Additionally, pathways of potential concern have been identified in the Preliminary Conceptual Site Model (CSM) shown in Appendix 2. The site is located in a highly industrialized and developed portion of Santa Fe Springs. Consequently, no ecological investigations were conducted at the site.

7.0 SUMMARY AND CONCLUSIONS

7.1 Summary

Based on the data presented in the various soil investigations and groundwater monitoring reports submitted to the DTSC since 1990, significant releases of solvents and hydrocarbon fuel have occurred at the ACC site, and both soil, soil vapor and groundwater has been impacted by those releases. Areas where significant chemical and/or hydrocarbon fuel releases have occurred include:

- The railroad spur along the northern portion of the site.
- The areas around all former USTs located on site.
- The canopy area in the central and south-central portions of the site.
- The vicinity of subsurface drains and product lines through out the site.

Table 2 is a compilation of all soil analytical data present in DTSC files. The data show the nature and extent of VOC contamination in soil at the ACC site. Analytical data for soil boring samples and soil samples collected during the installation of groundwater monitoring wells also reflect a distribution of elevated VOC concentrations from the surface down to groundwater in the northern and central portions of the ACC site.

Elevated levels of VOCs found in groundwater are consistent with the findings of the soil investigation. Historical groundwater sampling found elevated VOC concentrations in the vicinity of or down-gradient from the known release areas. Shallow FWZ groundwater shows the highest concentrations of VOCs in groundwater, while less VOC contamination is present in the deeper A1 zone groundwater. However, contamination is present in the A1 zone groundwater and is highest in the vicinity of the initial groundwater wells, which were located in the southern portion of the property and were screened across the two water zones. Elevated VOC concentrations are also reported in several A1 zone wells that are down gradient from source areas.

7.1.1 Nature and Extent of Contamination

Soil Impact

Soil samples collected from soil borings and during the drilling of wells in the northern and central portions of the site exhibited elevated VOC concentrations throughout the soil column (ground surface to approximately 30-35 ft bgs, which corresponds to the top of first [redacted] groundwater). However, soil borings not in the vicinity of the known release areas generally contained minimal concentrations of VOCs. Figures 11 to 15 present the aerial extent of total VOC contamination in soil samples collected during the installation of groundwater monitoring wells across the site.

Soil Vapor Impact

VOC vapor isoconcentration maps generated in the late 1990's and early 2000's by SCS Engineers and BEII, show elevated soil vapor concentrations of various VOCs associated with documented releases in the northern railroad area and around the USTs and canopy area. Table 3 presents the soil vapor data collected at the ACC site. These data show that [redacted] Cs were present in soil vapor in the upper 20 feet of the vadose zone across much of the ACC site.

Groundwater Impact

Maps of groundwater contamination from late 1990's and early 2000's were prepared by SCS Engineers and BEII. Those maps suggest that elevated concentrations of VOCs were found in groundwater beneath identified source areas. Figures 16 through 24 show representative historic (June sampling events from 2002 to 2006) total VOC concentrations in groundwater for both the FWZ and A1 zone wells.

In addition to the groundwater monitoring wells located close to identified source areas, monitoring wells along the southern property boundary also exhibit elevated VOC concentrations. However, monitoring wells located to the east (cross-gradient) of the identified source areas do not show elevated contaminant concentrations.

In the southern portion of the site it has been noted that although deeper soil and groundwater are impacted by the same VOCs released on site, the shallow near-surface soil is not as highly contaminated. It has been proposed that for some of those locations, the lack of shallow contamination is evidence that an off-site source has led to the observed groundwater and deeper soil contamination.

The DTSC notes that there are other soil sample [redacted] tions on the ACC site in proximity to where releases are known to have occurred and where the deeper soils have orders of magnitude higher contaminant concentrations than do the corresponding near surface or shallow soil samples. In addition, groundwater sampling, and/or lack thereof due to the presence of FP, indicate that groundwater contamination is [redacted] stest beneath and around those identified source areas. These identified on-site source areas are [redacted] gradient from the wells with the highest VOC contaminant levels in groundwater. Others have speculated that site soil and groundwater may have been impacted by an off-site contamination source. However, review of the site data suggests that on-site sources are more likely to be the source of contamination.

Across the Santa Fe Springs area there is a widespread groundwater contamination plume impacting the shallow regional aquifer (“A1 zone” and deeper). A comparison of the VOC concentrations observed on the site (particularly in groundwater from the upper portion of the A1 zone) with VOC concentrations found in the Santa Fe Springs regional plume found that VOC concentrations in the vicinity of and down-gradient from the identified ACC site release areas, are noticeably higher than those in the Santa Fe Springs regional plume. Furthermore, VOC concentrations to the southwest (down-gradient) from the ACC site are significantly higher than the concentrations of the same constituents up-gradient of the site.

This suggests that releases at the ACC site have been the most significant contributor to soil and groundwater contamination beneath the site, and appears to be contributing to the elevated VOC concentrations down-gradient from the site.

7.1.2 Fate and Transport

The known VOC release areas include the northern railroad spurs, the former UST and canopy areas, and spill drains and subsurface piping that were present in the central portion of the site. In addition to the hydrocarbon fuels (gasoline, diesel, and associated VOCs), chlorinated solvents were also known to have been released. The downward migration of those compounds would have impacted the underlying soil through the vadose zone. The lighter hydrocarbon compounds would have spread out laterally when they encountered the shallowest groundwater, whereas the denser chlorinated solvents would have continued migrating downward until they encountered the lithologic change from the shallow coarser-grained sediments of “Units A & B” to the finer-grained sediments of “Unit C”. At that point, the chlorinated solvents would have started spreading out laterally along that sediment interface. Groundwater in contact with those sediments would then become impacted by the hydrocarbon fuel compounds and the chlorinated solvents.

The original groundwater monitoring wells MW-1 and MW-2 were installed close to, and directly downgradient of, the former UST area where VOC releases were known to have occurred. Both of those wells were screened across both the shallow “FWZ” and the deeper “A1 zone”, and since shallow soil and groundwater contamination was present in those locations, it is very possible that those wells provided a conduit for downward migration of contaminants. In addition, releases in the northern and central parts of the site would be expected to migrate in a south-southwestward direction once they encountered groundwater since that is the prevailing regional groundwater flow direction. Furthermore, the first finer-grained “Unit C” overlies the “FWZ” and would have been influential in the lateral migration of contamination released in the UST area on the ACC site. Based on the above stated factors, it is reasonable to conclude that on-site releases are the major contributors to the observed soil and groundwater contamination on the property rather than off-site sources.

7.1.3 Risk Evaluation

A preliminary CSM identified the following exposure pathways of concern for the VOCs encountered from the site:

- Inhalation of indoor air contaminated with VOCs intruding from the subsurface has been identified as a complete exposure pathway, because VOCs are encountered in

- the soil and soil gas at the site, and there are workers occupying an existing on-site building.
- Ingestion of groundwater as tap water and inhalation of VOCs volatilizing during all uses of household water (e.g. showering, laundering, and dish washing) are complete exposure pathways. The groundwater under the site contains several VOCs that are present at concentrations exceeding the applicable regulatory action levels, Maximum Contaminant Levels (MCLs). The groundwater in this region has been identified by the Los Angeles Regional Water Control Board as having potential beneficial use. The City of Santa Fe Springs has one drinking water production well in the Hollydale aquifer, which is located approximately nine miles south of the site (down gradient). Additionally, the city has two deeper drinking water production wells. One is approximately a half mile north of the site and is screened in the deeper Silverado and Sunnyside aquifers; the other well is approximately two miles west of the site and is screened in the Silverado aquifer. Water quality data from those two wells have indicated a presence of TCE and PCE.
 - Dermal contact with and incidental ingestion of contaminated soil are complete exposure pathways for future construction and/or excavation workers.

While a formal BHHRA has not been conducted for the ACC Site, a screening human health risk evaluation has been carried out for the primary chemicals of concern assuming that the exposure pathways driving the risk at this site is the inhalation of soil vapors intruding indoors from the sub-surface and the use of groundwater as a drinking water source. The risks and hazards from all other exposure pathways are insignificant.

1) The maximum soil vapor concentrations detected at this site were used to calculate the screening level risks from the inhalation of indoor air. These soil vapor data are listed in Table 4.2 and in the table below. These risks were calculated by using the DTSC version of the U.S. Environmental Protection Agency (US EPA) screening soil vapor intrusion model, as available on the DTSC web site. All default input parameters were used, assuming an unclassified soil lithology and residential land use.

<i>Constituent</i>	<i>Soil Vapor, µg/l</i>	<i>Depth, feet</i>	<i>Risk</i>
VC	325	20	3.7×10^{-3}
PCE	3,100	20	1.9×10^{-3}
1,1,1-TCA	90,000	20	NA*
TCE	2,700	20	6.1×10^{-4}
1,1-DCE	9,400	20	NA*
Benzene	13	20	4.6×10^{-5}
Total Risk	-	-	6.2×10^{-3}

*1,1,1-TCA and 1,1-DCE are not carcinogens. The Hazard Quotients (HQs) for these chemicals at this depth are 23 and 39, respectively. The cumulative Hazard Index (HI) is then 62.

The cumulative risk from maximum soil gas concentrations measured at 20 feet below ground surface (bgs) is 6×10^{-3} , with the major fraction of that risk due to the presence of vinyl chloride.

2) The maximum groundwater concentrations detected were used to calculate the screening levels risks from groundwater use as tap water. These groundwater concentrations are listed in Table 4.3 and in the table below. The risk from the use of groundwater as a drinking water source was calculated using the method described by the U.S. Environmental Protection Agency (US EPA) (*US EPA Region 9 Preliminary Remediation Goals (PRGs) Table Users Guide/Technical Background Document*, 2002) and the California Environmental Protection Agency (Cal/EPA) (*Cal/EPA Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties, January 2005*). In this method, the cancer risks were calculated by dividing the maximum groundwater concentration for each carcinogenic chemical by its respective US EPA Tap Water PRG and multiplying the ratio by 10^{-6} . The HQ is calculated in the same way except that the ratio itself represents the HQ, and the HI is calculated by summing the HQs.

<i>Constituent</i>	<i>Groundwater, µg/l</i>	<i>Tap Water PRG, µg/l</i>	<i>Risk</i>
VC	12,700	0.02	6.4×10^{-1}
PCE	5,370	0.1	5.4×10^{-2}
1,1,1-TCA	114,000	3,200	NA*
TCE	14,300	1.4	1.0×10^{-2}
1,1-DCE	12,580	340	NA*
Benzene	1,390	0.35	4.0×10^{-3}
Total Risk			7.0×10^{-1}

*1,1,1-TCA and 1,1-DCE are not carcinogens. The HQs for these chemicals in groundwater are 36 and 37, respectively. The cumulative HI is then 62.

The equation used to calculate the risks from the constituents in groundwater is likely not valid, because the concentrations are so high. However, this screening evaluation indicates VOCs in groundwater present a significant risk that must be addressed.

7.2 Conclusions

Soil

Review of the data discussed in Section 4 has revealed that soil in both the northern (OU-1) and southern (OU-2) portions of the site have been impacted by identified on-site chlorinated solvent and hydrocarbon fuel sources.

Soil Vapor

Previous site investigations have revealed that soil vapor in both the northern (OU-1) and southern (OU-2) portion of the site have been impacted by known on-site chlorinated solvent and hydrocarbon fuel releases.

Groundwater

Groundwater investigations have demonstrated that groundwater (OU-3) in the northern, central and southern portions of the site have been impacted by identified on-site sources of VOC's. This is evidenced by the presence of free product in FWZ wells located in close proximity to or down-gradient of identified on-site source areas. This includes wells MW-4,

MW-6, MW-8, MW-10, MW-16, MW-18, and MW-19. Other FWZ wells that historically had or currently have significantly high VOC concentrations include MW-3, MW-7, MW-9, MW-11, and MW-26, which are also located in the vicinity of or down-gradient from identified on-site source areas.

It is also very likely that the observed contamination in “A1” zone groundwater well MW-21, and possibly MW-15, could be a result of cross-contamination from the shallow “FWZ” via former wells (MW-1 and MW-2) which were screened across the “FWZ” and underlying “A1” zones. The observed contamination in A1 zone well MW-14 may reflect vertical and down-gradient migration or “leakage” from the FWZ and source areas located to the north and northeast into the A1 zone.

7.2.1 Data Limitation and Recommendations for Future Work

After conducting a comprehensive file review from DTSC files and the information provided by the current property owner, a number of data gaps were identified. These include soil sample analyses associated with installation of a number of groundwater wells including MW-2, MW-3, MW-11, MW-13-14, MW-18, and MW-20 thru 26. The missing soil data from those wells would be useful in determining the extent of vadose zone contamination that was present at the time the wells were drilled. However, the lack of that data does not restrict or limit our ability to make reasonable interpretations and decisions regarding future work to be conducted at the site. Based on the data reviewed during the preparation of this document, it is apparent that soil and groundwater has been impacted by on-site releases, and the lateral and vertical extent of that contamination on the property has been adequately delineated. Therefore, no further characterization or investigation work is recommended for the ACC property. However, further off-property assessment of groundwater to the west should be conducted to determine the extent of off-property groundwater contamination. Furthermore, a human health risk assessment should be conducted to determine the level of risk that exists at current contaminant levels for both the vadose zone and groundwater.

7.2.2 Recommended Remedial Action Objectives

The DTSC recommends that a rigorous soil, soil vapor, and groundwater treatment program be implemented on the ACC site to address vadose zone and groundwater contamination that exists at the site, especially in the known release areas. A vapor extraction system currently exists on the ACC site, however, in spite of the efficiency claims, it has seldom been observed by DTSC staff to be operating during site visits. It should be possible, with proper planning, to develop a comprehensive vadose zone and groundwater treatment system that can address soil cleanup and both shallow and deeper groundwater contaminant plume containment and remediation across the site.

The remedial action objectives should reduce VOC concentrations in soil, soil vapor, and groundwater. Soil and soil vapor should be remediated to levels that would no longer be a contributing source to groundwater contamination or pose a human health risk, and groundwater should be remediated to levels that would no longer pose a health risk to the groundwater which is considered to be of potential beneficial use.

8.0 REFERENCES

Blakely Environmental Investigations, Inc., June 9, 2000, Site Assessment Work Plan for Angeles Chemical Company.

Blakely Environmental Investigations, Inc., October 5, 2000, Groundwater Monitoring Work Plan for Angeles Chemical Company.

Blakely Environmental Investigations, Inc., October 5, 2000, Soil Gas Survey Work Plan for Angeles Chemical Company.

Blakely Environmental Investigations, Inc., January 10, 2001, Report of Findings (2000 Soil Vapor Survey), Angeles Chemical Company.

Blakely Environmental Investigations, Inc., October 15, 2002, Subsurface Investigation Phase I Report of Findings (2002 Soil Vapor Survey), Former Angeles Chemical Company.

Blakely Environmental Investigations, Inc., Quarterly Groundwater Monitoring Reports for Former Angeles Chemical Company 2002 – 2004.

Blakely Environmental Investigations, Inc., Miscellaneous Soil and Groundwater Analytical Data, Tables and Figures.

California Department of Water Resources, 1961, Planned Utilization of the Gound Water Basins of the Coastal Plain of Los Angeles County; Bulletin 104.

Clean Soil, Inc., Quarterly Groundwater Monitoring Reports for Former Angeles Chemical Company 2004 – 2005.

EREMCO, June 1999, Underground Storage Tank Removal Report and Abandonment in Place for Angeles Chemical Company.

EREMCO, September 2001, Tank Mitigation Report for former Angeles Chemical Company.

Harding Lawson Associates, 1992, Remedial Investigation, McKesson Corporation Property,

The Leu Group, Quarterly Groundwater Monitoring Reports for Former Angeles Chemical Company, 2005-2006.

SCS Engineers, May 1993, Final Remedial Investigation / Feasibility Study Workplan, Angeles Chemical Company Site.

SCS Engineers, April 25, 1997, Feasibility Study Report, Operable Unit No. 1, Angeles Chemical Company Site.

SCS Engineers, September 1998, Feasibility Study Report, Operable Unit No. 2, Angeles Chemical Company Site.

SCS Engineers, February 1999, Draft Removal Action Workplan, Operable Unit No. 2, Angeles Chemical Company Site.

SCS Engineers, February 25, 2000, Soil Vapor Extraction Workplan; Angeles Chemical Company.

SCS Engineers, February 28, 2000, Groundwater Monitoring Program Workplan, Angeles Chemical Company.

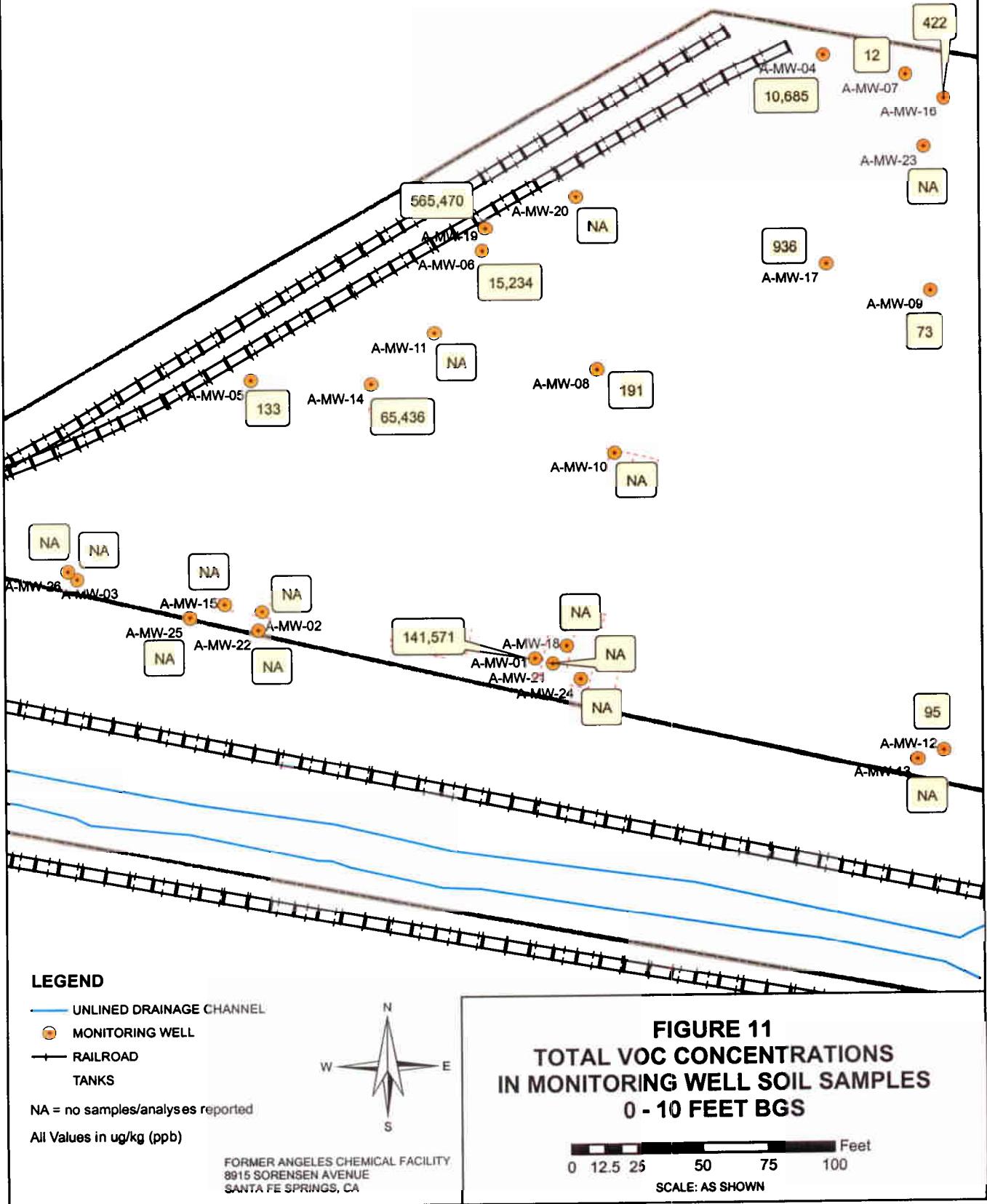
SCS Engineers, April 2000, Groundwater Sampling and Analysis Workplan, Angeles Chemical Company.

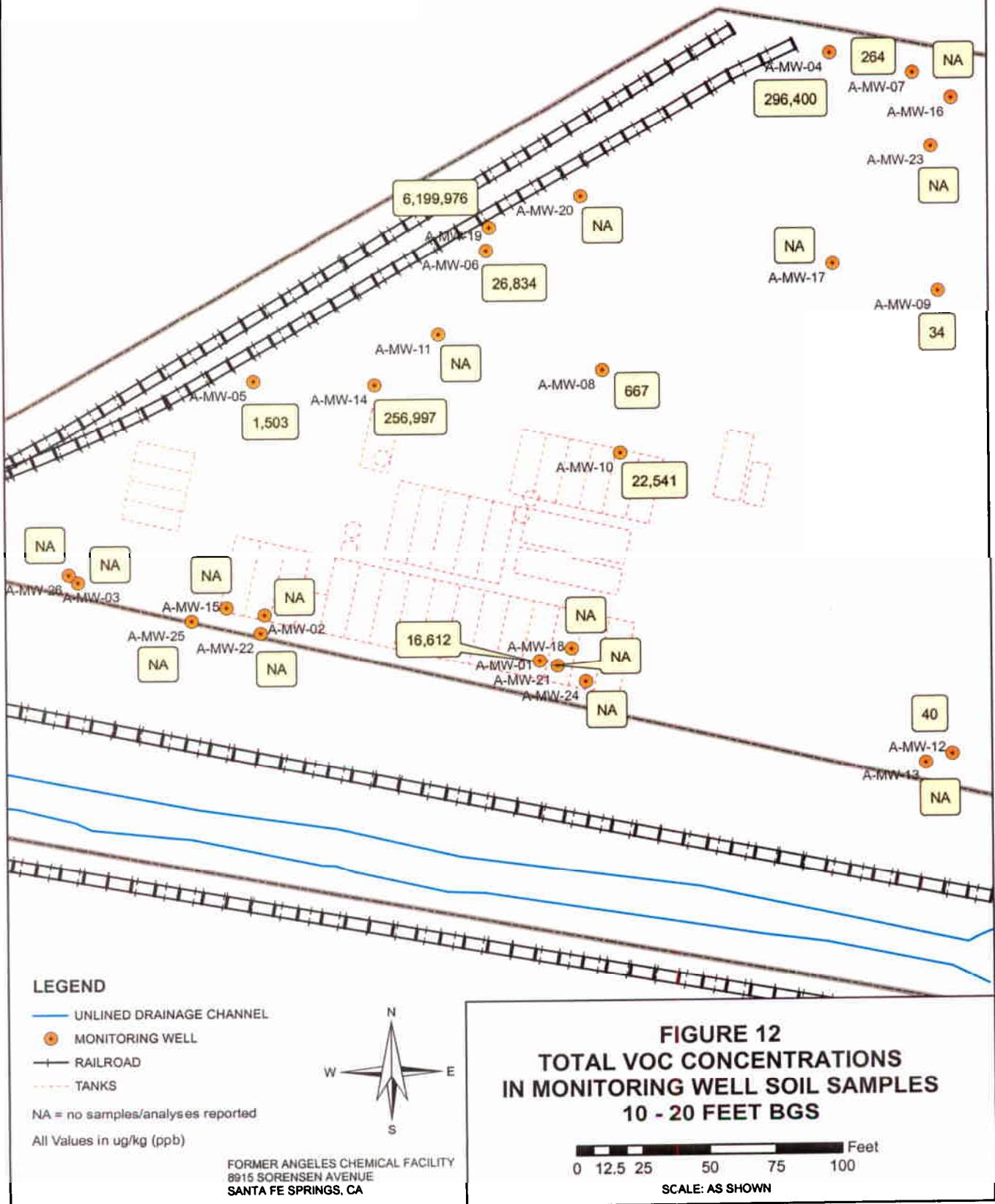
Shaw Environmental & Infrastructure, Inc., February 2004, Summary Site Characterization Report, Former Angeles Chemical Company.

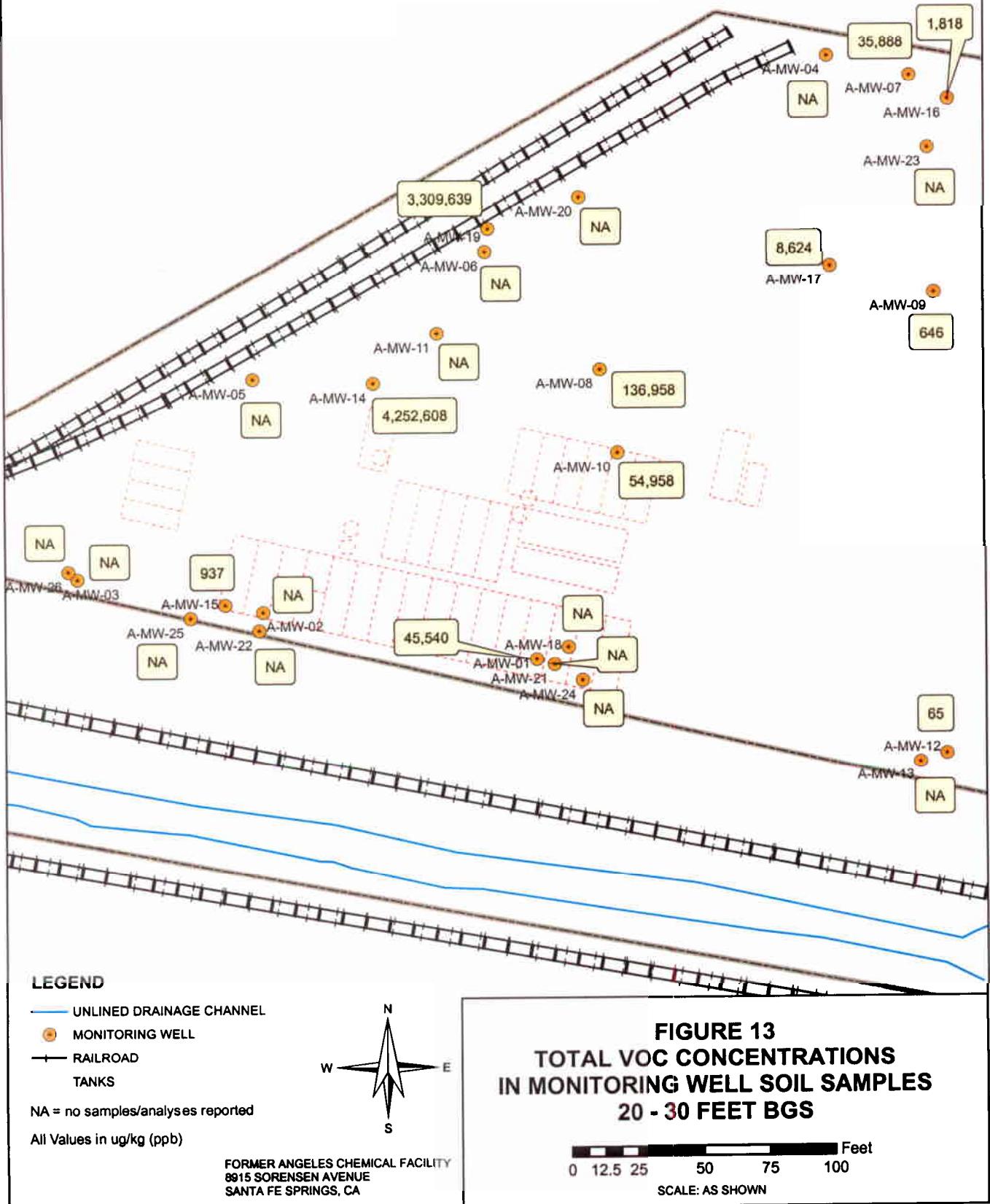
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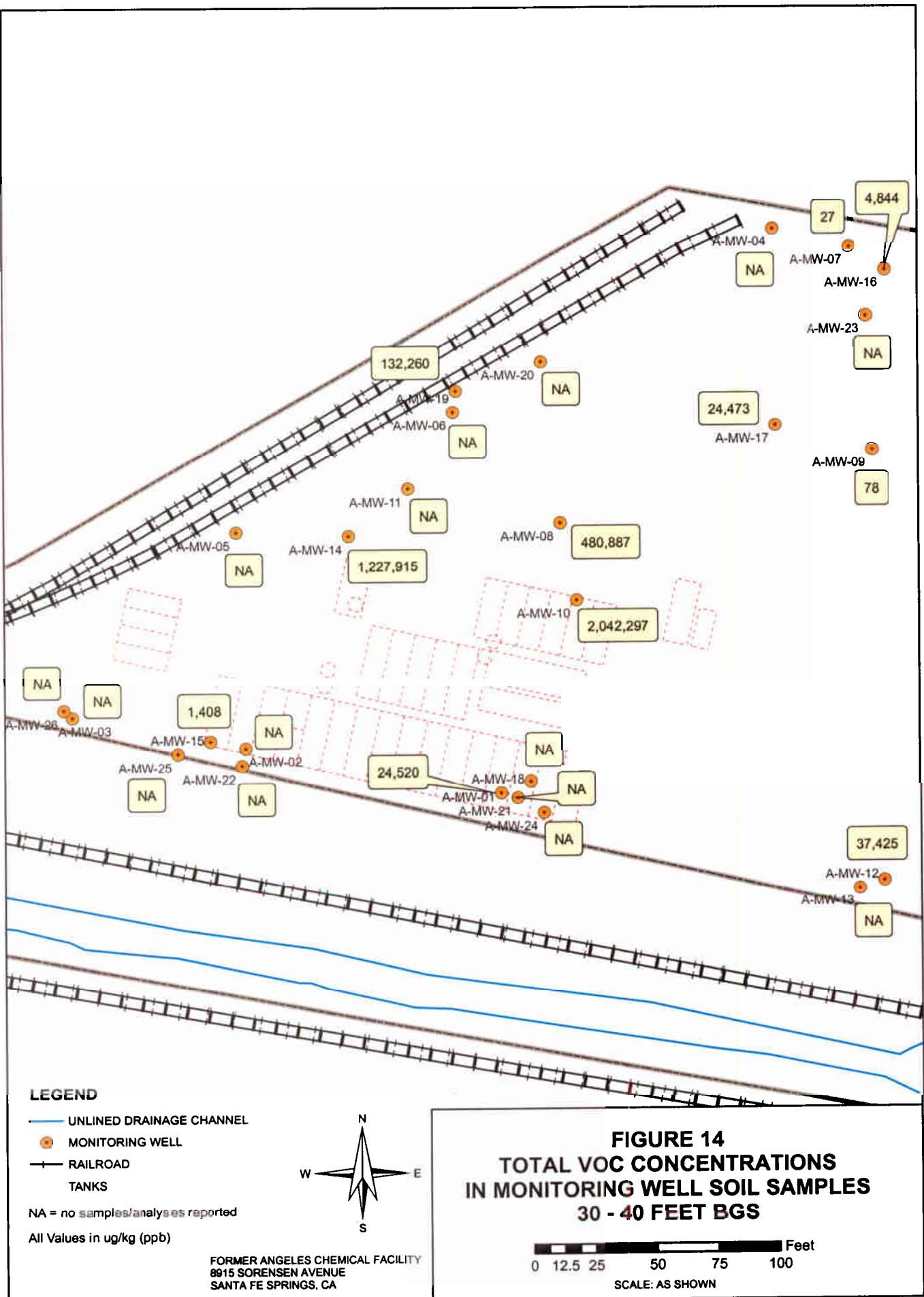
- Figure 1. Site location map (BEII)
- Figure 2. Generalized map showing facilities neighboring Angeles Chemical Site (SCS Engineers)
- Figure 3. Map showing historic surface and subsurface features at Angeles Chemical Co. site (SCS Engineers)
- Figure 4. Map showing approximate locations of soil borings, surface samples and groundwater well MW-1 at Angeles Chemical Co. site, 1992 (SCS Engineers)
- Figure 5. Map showing soil vapor sampling locations and vapor plume contours at 5 feet below grade for Angeles Chemical Co. site, 1996-1997 (SCS Engineers)
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- Figure 8. Map showing locations of soil borings and monitoring wells at Angeles Chemical Co. site.
- Figure 9. Map showing the locations of the perched and shallow ‘1st water’ zone groundwater wells at the Angeles Chemical Co. site.
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- Figure 11. Map showing total VOC concentrations reported in monitoring well soil samples from the surface to 10 feet bgs.
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- Figure 13. Map showing total VOC concentrations reported in monitoring well soil samples from 20 feet to 30 feet bgs.
- Figure 14. Map showing total VOC concentrations reported in monitoring well soil samples from 30 feet to 40 feet bgs.
- Figure 15. Map showing total VOC concentrations reported in monitoring well soil samples from deeper than 40 feet bgs.

- Figure 16. Map showing total VOC concentrations in groundwater samples collected from existing monitoring wells in June 2002.
- Figure 17. Map showing total VOC concentrations in groundwater samples collected from shallow “1st” water monitoring wells in June 2003.
- Figure 18. Map showing total VOC concentrations in groundwater samples collected from A1 Zone groundwater monitoring wells in June 2003.
- Figure 19. Map showing total VOC concentrations in groundwater samples collected from shallow “1st” water monitoring wells in June 2004.
- Figure 20. Map showing total VOC concentrations in groundwater samples collected from A1 Zone groundwater monitoring wells in June 2004.
- Figure 21. Map showing total VOC concentrations in groundwater samples collected from shallow “1st” water monitoring wells in June 2005.
- Figure 22. Map showing total VOC concentrations in groundwater samples collected from A1 Zone groundwater monitoring wells in June 2005.
- Figure 23. Map showing total VOC concentrations in groundwater samples collected from shallow “1st” water monitoring wells in June 2006.
- Figure 24. Map showing total VOC concentrations in groundwater samples collected from A1 Zone groundwater monitoring wells in June 2006.









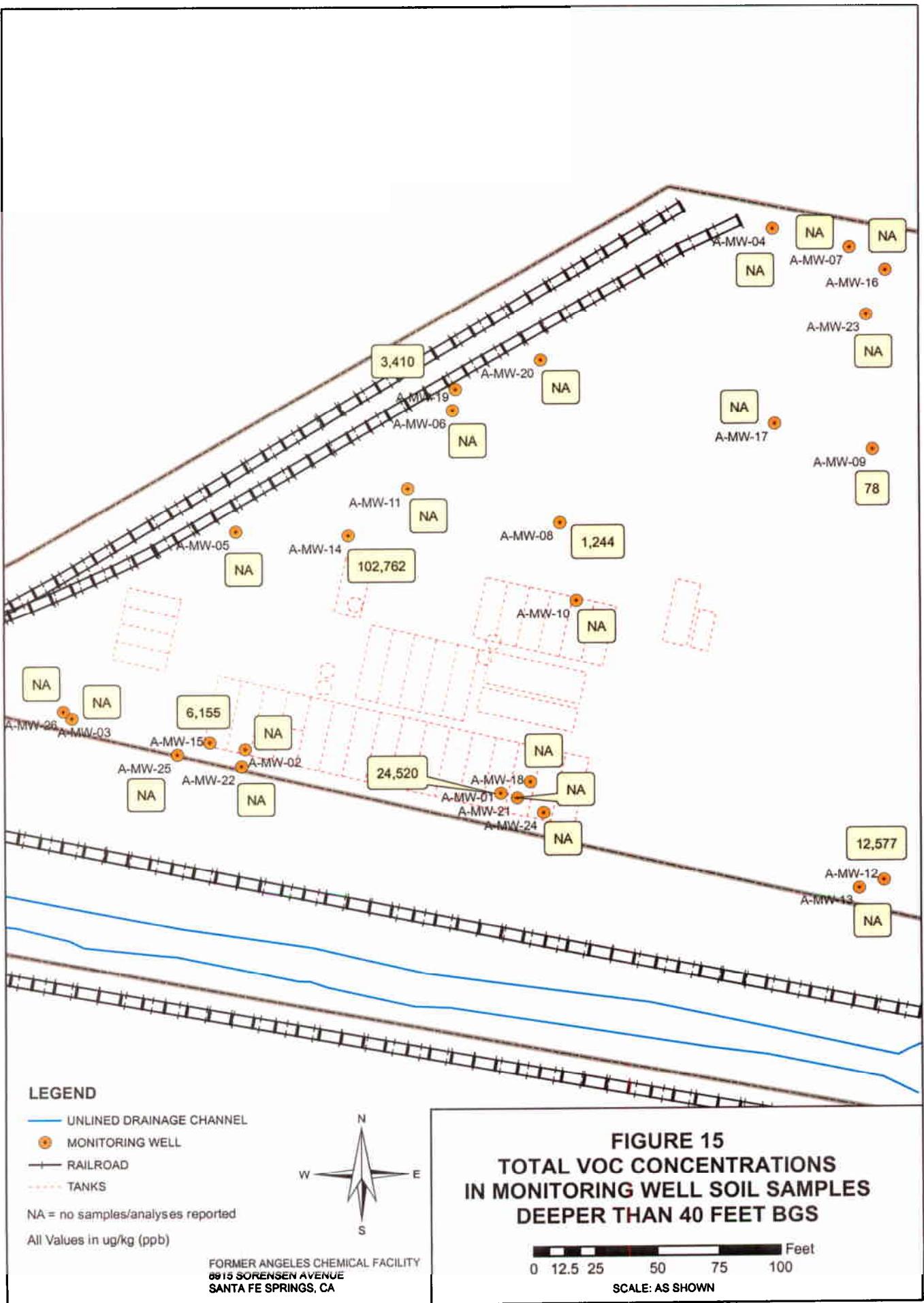


TABLE 1

ANALYTICAL DATA FOR SOIL SAMPLES
FROM HISTORIC REMEDIAL INVESTIGATIONS
& SITE CHARACTERIZATION ACTIVITIES

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
BSB1-5	1.6	<10	<10	<10	<10	5.7	<5	<5	19.5	<5
BSB1-10	<1	NA	NA	<50	<50	35	<25	<25	50	<25
BSB1-17.5	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB1-20	<1	<10	<10	<50	<50	112	37.5	<25	178	115
BSB1-27.5	<1	<10	<10	<100	<100	305	222	<50	365	550
BSB1-28	1.2	<10	<10	<100	<100	745	110	<50	1580	230
BSB1-35	<1	<10	<10	<100	<100	205	100	<50	308	95
BSB1-40	<1	<10	<10	<100	<100	196	132	<50	270	<50
BSB1-45	NA	NA	NA	<100	<100	148	80	<50	125	<50
BSB1-50	<1	<10	<10							
BSB2-4	<1	NA	NA	<10	<10	12	<5	<5	<5	11
BSB2-9	<1	NA	NA	<10	<10	5.6	<5	<5	<5	5.6
BSB2-14	<1	NA	NA	<10	<10	<5	<5	<5	<5	<5
BSB2-18	<1	<10	<10	<20	<20	35	<10	<10	<10	55
BSB2-21	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB2-26.5	<1	<10	<10	<10	<10	18.5	9.1	<5	22	42.5
BSB3-6.5	<1	<10	<10	<10	<10	8.6	<5	<5	<5	<5
BSB3-11.5	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB3-18	<1	<10	<10	<20	<20	325	14	<10	195	<10
BSB3-19	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB3-27	54.4	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB3-28	1,410	42	<10	<2,500	<2,500	2,000	<1,250	<1,250	1,280	<1,250
BSB3-35	<1	<10	<10	<20	<20	77	174	<10	474	<10
BSB3-40	<1	<10	<10	90	<50	152	250	<25	660	<25
BSB4-6.5	<1	<10	<10	<10	<10	36.8	<5	<5	49	<5
BSB4-12	<1	<10	<10	<10	<10	207	<5	<5	340	<5
BSB4-17	9.6	<10	<10	<100	<100	<50	<50	<50	<50	<50
BSB4-25	9.5	<10	<10	<100	<100	<50	<50	<50	<50	<50
BSB4-26.5	8.1	<10	<10	<250	<250	850	<125	<125	1,070	<125
BSB4-34	67.2	<10	<10	<500	<500	2,210	857	<250	10,200	<250
BSB4-40	80	10	<10	<500	<500	895	1,780	<250	7,600	1,010
BSB5-7	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB5-12	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB5-20	<1	<10	<10	<250	<250	<125	<125	<125	565	<125
BSB5-23	1.1	<10	<10	<250	<250	<125	<125	<125	405	<125
BSB5-28	6	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB5-34	8	<10	<10	<250	<250	330	350	<125	2,000	<125
BSB5-37.5	58	<10	<10	<250	<250	350	310	<125	1,750	<125
BSB5-40	83.6	<10	<10	<250	<250	190	270	<125	1,190	<125
BSB6-5	6,890	426	<10	<5,000	<5,000	<2,500	<2,500	<2,500	8,350	36,800
BSB6-9	594	<10	<10	<1,000	<1,000	<500	<500	<500	1,150	1,580
BSB6-10	137	<10	<10	<5,000	<5,000	<2,500	<2,500	<2,500	1,690	1,460
BSB6-15	1,760	48	<10	<2,000	<2,000	1,460	1,000	<1,000	10,400	80,000
BSB6-19	1,970	119	<10	<1,000	<1,000	<500	<500	<500	9,850	30,300
BSB6-25	780	86	<10	<2,500	<2,500	<1,250	<1,250	<1,250	1,790	2,540
BSB6-30	2,080	172	<10	<1,000	<1,000	<500	<500	<500	5,710	10,000
BSB6-34	2,490	449	<10	<2,500	<2,500	4,930	4,950	<1,250	9,50	26,300
BSB6-40	55.4	10	<10	<1,000	<1,000	1,420	580	<500	4,120	<500

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
BSB1-5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB1-10	<25	<25	<25	<25	<25	<5	<25	<25	<25	<25	<25
BSB1-17.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB1-20	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
BSB1-27.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-28	<50	<50	<50	<50	<50	<50	<50	<50	130	<50	<50
BSB1-35	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-40	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-45	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-50											
BSB2-4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
BSB2-9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
BSB2-14	<5	<5	6.8	<5	<5	<5	<5	<5	<5	<5	<25
BSB2-18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<25
BSB2-21	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
BSB2-26.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
BSB3-6.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB3-11.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB3-18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BSB3-19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB3-27	<5	<5	<5	<5	<5	<5	85	180	545	<5	<5
BSB3-28	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250	12,100	18,400	81,000	<1,250	1,850
BSB3-35	<10	450	294	<10	<10	10.2	3.2	<10	<10	<10	22
BSB3-40	<25	255	255	<25	<25	<25	<25	<25	<25	<25	<25
BSB4-6.5	<5	<5	9.4	<5	<5	<5	<5	<5	<5	<5	<5
BSB4-12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB4-17	<50	<50	<50	<50	<50	<50	195	<50	120	<50	<50
BSB4-25	<50	<50	<50	<50	<50	<50	80	<50	<50	<50	<50
BSB4-26.5	<125	<125	<125	<125	<125	<125	540	55	210	<125	<125
BSB4-34	<250	<250	<250	<250	<250	<250	80	600	1,120	4,880	<250
BSB4-40	<250	1,350	530	<250	<250	230	4,550	1,250	4,720	<250	<250
BSB5-7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB5-12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB5-20	<125	153	<125	<125	<125	<125	<125	<125	150	<125	<125
BSB5-23	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB5-28	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB5-34	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB5-37.5	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB5-40	<125	<125	<125	<125	<125	80	225	195	500	<125	<125
BSB6-5	<2,500	100,000	827,00	6,000	<2,500	<2,500	6,000	4,550	27,800	<2,500	1,650
BSB6-9	<500	7,150	24,000	2,880	<500	<500	487	<500	820	<500	<500
BSB6-10	<2,500	4,670	14,000	7,960	<2,500	<2,500	225	<2,500	360	<2,500	<2,500
BSB6-15	<1,000	42,200	462,000	19,600	<1,000	<1,000	8,200	1,820	7,780	<1,000	<1,000
BSB6-19	<500	15,000	301,000	1,340	<500	<500	14,000	2,800	12,200	<500	608
BSB6-25	<1,250	690	16,100	<1,250	<1,250	<1,250	3,210	1,480	5,600	<1,250	<1,250
BSB6-30	<500	<500	1,150	<500	<500	<500	9,540	3,650	14,400	<500	588
BSB6-34	<1,250	105,000	20,900	5,800	<1,250	<1,250	56,500	14,400	55,800	<1,250	1,100
BSB6-40	<500	<500	<500	<500	<500	<500	1,760	<500	440	<500	<500

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
BSB1-5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB1-10	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
BSB1-17.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB1-20	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
BSB1-27.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-28	<50	<50	<50	<50	120	<50	<50	<50	<50	85	<50
BSB1-35	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-40	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-45	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB1-50											
BSB2-4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB2-9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB2-14	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB2-18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BSB2-21	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB2-26.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB3-6.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<5
BSB3-11.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<5
BSB3-18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10
BSB3-19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB3-27	460	<5	265	<5	975	<5	<5	<5	<5	<5	<5
BSB3-28	3,650	<1,250	10,400	<1,250	40,300	<1,250	<1,250	<1,250	2,380	2,350	<1,250
BSB3-35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BSB3-40	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
BSB4-6.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<5
BSB4-12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<500	<5
BSB4-17	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB4-25	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
BSB4-26.5	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB4-34	<250	<250	460	<250	1,950	<250	<250	<250	<250	<250	<250
BSB4-40	2,270	<250	965	<250	3,830	<250	<250	<250	260	375	<250
BSB5-7	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB5-12	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB5-20	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB5-23	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB5-28	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB5-34	<125	<125	165	<125	965	<125	<125	<125	<125	<125	<125
BSB5-37.5	<125	<125	175	<125	850	<125	<125	<125	<125	<125	<125
BSB5-40	<125	<125	195	<125	860	<125	<125	<125	<125	<125	<125
BSB6-5	9,550	<2,500	70,500	<2,500	424,000	4,750	7,100	<2,500	7,200	217,000	<2,500
BSB6-9	3,920	<500	2,880	<500	24,200	<500	<500	<500	4,910	9,250	<500
BSB6-10	<2,500	<2,500	500	<2,500	4,690	<2,500	<2,500	<2,500	890	3,070	<2,500
BSB6-15	12,100	<1,000	6,680	<1,000	80,700	<1,000	<1,000	<1,000	9,840	40,000	<1,000
BSB6-19	1,680	<500	10,300	<500	84,000	<500	<500	<500	17,600	40,000	<500
BSB6-25	380	<1,250	2,940	<1,250	21,700	<1,250	<1,250	<1,250	4,410	10,200	<1,250
BSB6-30	1,540	<500	7,340	<500	54,200	<500	<500	<500	12,600	27,600	<500
BSB6-34	2,430	<1,250	13,300	<1,250	93,000	<1,250	1,480	<1,250	93,000	34,000	<1,250
BSB6-40	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
BSB1-5	<5	<50	<50	<50	<50	<50	<5	<10	NA	NA	<30
BSB1-10	<25	<250	<250	<250	<250	<250	<25	<50	NA	NA	<150
BSB1-17.5	<5	<50	<50	<50	<50	<50	<5	<10	NA	NA	<30
BSB1-20	<25	<50	<50	<50	<50	<50	<25	<50	NA	NA	<150
BSB1-27.5	<50	<500	<500	<500	<500	<500	<50	<100	NA	NA	<300
BSB1-28	<50	<500	<500	<500	<500	<500	<50	<100	NA	NA	<300
BSB1-35	<50	<500	<500	<500	<500	<500	<50	<100	NA	NA	<300
BSB1-40	<50	<500	<500	<500	<500	<500	<50	<100	NA	NA	<300
BSB1-45	<50	<500	<500	<500	<500	<500	<50	<100	NA	NA	<300
BSB1-50											
BSB2-4	<5	<50	<50	<50	<50	<50	<5	<10	NA	NA	<30
BSB2-9	<5	<50	<50	<50	<50	<50	<5	<10	NA	NA	<30
BSB2-14	<5	<50	<50	<50	<50	<50	<5	<10	NA	NA	<30
BSB2-18	<10	<100	<100	<100	<100	<100	<10	<20	NA	NA	<60
BSB2-21	<5	<50	<50	<50	<50	<50	<5	<10	NA	NA	<30
BSB2-26.5	<5	<50	<50	<50	<50	<50	<5	<10	NA	NA	<30
BSB3-6.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB3-11.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB3-18	<10	<100	<100	<100	<100	<100	<10	<20	<10	NA	<60
BSB3-19	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB3-27	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB3-28	3,980	<12,500	<12,500	<12,500	<12,500	<12,500	<1,250	<2,500	<1,250	NA	<7,500
BSB3-35	<10	<100	<100	<100	<100	<100	<10	<20	<10	NA	<60
BSB3-40	<25	<250	<250	<250	<250	<250	<25	<100	<25	NA	<150
BSB4-6.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB4-12	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB4-17	<50	<500	<500	<500	<500	<500	<50	<100	<50	NA	<300
BSB4-25	<50	3,800	<500	<500	<500	<500	<50	<100	<50	NA	<300
BSB4-26.5	<125	3,500	<1250	<1250	<1250	<1250	<125	<250	<125	NA	<750
BSB4-34	<250	2,380	<2500	<2500	<2500	<2500	<250	<500	<250	NA	<1,500
BSB4-40	<250	<2500	<2500	<2500	<2500	<2500	<250	<500	<250	NA	<1,500
BSB5-7	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB5-12	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB5-20	<125	6,300	<1250	<1250	<1250	<1250	<125	<250	<125	NA	<750
BSB5-23	<125	7,700	<1250	<1250	<1250	<1250	<125	<250	<125	NA	<750
BSB5-28	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
BSB5-34	<125	<1250	<1250	<1250	<1250	<1250	<125	<250	<125	NA	<750
BSB5-37.5	<125	1,370	<1250	<1250	<1250	<1250	<125	<250	<125	NA	<750
BSB5-40	<125	1,830	<1250	<1250	<1250	<1250	<125	<250	<125	NA	<750
BSB6-5	<2,500	36,500	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	NA	<15,000
BSB6-9	<500	16,600	<5000	<5000	<5000	<5000	<500	<1,000	<500	NA	<3,000
BSB6-10	<2,500	173,000	<2,5000	<2,5000	<2,5000	<2,5000	<2,500	<5,000	<2,500	NA	<15,000
BSB6-15	<1,000	19,100	<1,0000	<1,0000	<1,0000	<1,0000	<1,000	<2,000	<1,000	NA	<6,000
BSB6-19	<500	7,870	<5000	<5000	<5000	<5000	<500	<1,000	<500	NA	<3,000
BSB6-25	<1,250	14,400	<12,500	<12,500	<12,500	<12,500	<1,250	<2,500	<1,250	NA	<7,500
BSB6-30	<500	10,900	<5000	<5000	<5000	<5000	<500	<1,000	<500	NA	<3,000
BSB6-34	4,080	31,300	<12,500	<12,500	<12,500	<12,500	<12,500	<2,500	<1,250	NA	<7,500
BSB6-40	<500	39,400	<5000	<5000	<5000	<5000	<500	<1,000	<500	NA	<3,000

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
BSB7-2.5	1.9	<10	<10	<100	<100	<50	<50	<50	<50	<50
BSB7-7.5	10.6	<10	<10	<250	<250	188	<125	<125	795	<125
BSB7-15	10,400	190	<10	<10,000	<10,000	<5000	<5000	<5000	5,800	61,600
BSB7-17	301	53	<10	<1,000	<1,000	440	<500	<500	<500	<500
BSB7-22	542	30	<10	<1,000	<1,000	440	<500	<500	<500	<500
BSB7-27.5	290	<10	<10	<500	<500	355	<250	<250	<250	<250
BSB7-30	1,430	244	<10	<1,000	<1,000	2,140	828	<500	12,300	16,800
BSB7-33	9,070	309	<10	<25,000	<25,000	<12,500	<12,500	<12,500	34,500	78,000
BSB7-40	31	<10	<10	<250	<250	985	375	<250	1,270	775
BSB7-41.5	<1	<10	<10	<25	<25	167	18	<12.5	72.1	<12.5
BSB8-5	32	<10	<10	<250	<250	290	<125	<125	650	<125
BSB8-10	204	<10	<10	<500	<500	<250	<250	<250	420	<250
BSB8-13	190	<10	<10	<500	<500	250	<250	<250	665	<250
BSB8-18	344	<10	<10	<1,000	<1,000	400	<500	<500	<500	<500
BSB8-27.5	279	<10	<10	<500	<500	286	<250	<250	<250	<250
BSB8-31	782	<10	<10	<5,000	<5,000	5,400	<2,500	<2,500	4,100	<2,500
BSB8-35	143	<10	<10	<250	<250	335	285	<125	1,820	<125
BSB8-40	29	<10	<10	<500	<500	1,020	437	<250	1,970	<250
BSB8-45	57	<10	<10	<500	<500	1,580	355	<250	1,520	<250
BSB9-5	2,490	1,150	<10	<2,000	<2,000	900	<1,000	<1,000	<1,000	36,500
BSB9-8	2,980	125	<10	<5,000	<5,000	2,200	<2,500	<2,500	<2,500	176,000
BSB9-15	191	<10	<10	<500	<500	1,130	<250	<250	258	19,800
BSB9-17	26	<10	<10	<250	<250	170	<125	<125	62.5	2,380
BSB9-22.5	54	<10	<10	<50	<50	57	85	<25	57	595
BSB9-24	223	<10	<10	<500	<500	<250	<250	<250	<250	783
BSB9-27.5	6,260	340	<10	<5,000	<5,000	<2,500	3,780	<2,500	3,600	306,000
BSB9-32.5	1,940	<10	<10	<5,000	<5,000	<2,500	<2,500	<2,500	<2,500	37,600
BSB9-35	105	<10	<10	<100	<100	50	260	<50	<50	230
BSB9-40	43	<10	<10	<100	<100	<50	250	<50	165	60
BSB10-2	<1	<10	<10	<50	<50	<25	<25	<25	<25	27.1
BSB10-7.5	37	<10	<10	<250	<250	125	<125	<125	575	510
BSB10-12.5	<1	<10	<10	<20	<20	26	11.5	<10	135	132
BSB10-16	<1	<10	<10	<200	<200	165	<100	<100	1,490	342
BSB10-22.5	<1	<10	<10	<20	<20	<10	<10	<10	24	14
BSB10-27.5	35	<10	<10	<250	<250	<125	<125	<125	235	<125
BSB10-30	20	<10	<10	<200	<200	232	525	<100	218	<100
BSB10-35	<1	<10	<10	<20	<20	45	52.5	<10	16	<10
BSB10-40	<1	<10	<10	<20	<20	27	20	<10	13.5	<10
BSB11-9.5	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB11-14.5	<1	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB11-19.5	<1	<10	<10	<500	<500	846	<250	<250	365	<250
BSB11-24.5	<1	<10	<10	<250	<250	529	<125	<125	194	<125
BSB11-29.5	15	<10	<10	<500	<500	11,300	406	<250	5,480	<250
BSB11-34.5	84.3	<10	<10	<250	<250	2,970	745	<125	5,600	<125
BSB11-39.5	20	<10	<10	<250	<250	1,230	926	<125	6,710	<125
BSB11-42	263	120	<10	<500	<500	780	1,580	<250	3,640	2,850
BSB11-44	12.1	<10	<10	<100	<100	<50	989	<50	425	988

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
BSB7-2.5	<50	<50	60	<50	<50	<50	60	<50	280	<50	<50
BSB7-7.5	<125	<125	<125	<125	<125	<125	<125	<125	100	<125	<125
BSB7-15	<5000	13,200	210,000	<5000	<5000	<5000	574,000	143,000	872,000	<5000	13,800
BSB7-17	<500	<500	<500	<500	<500	<500	1,240	1,060	7,600	<500	<500
BSB7-22	<500	<500	<500	<500	<500	<500	7,100	3,880	26,800	<500	760
BSB7-27.5	<250	<250	<250	<250	<250	<250	5,300	3,050	18,800	<250	<250
BSB7-30	<500	1,400	12,000	<500	<500	220	102,000	18,300	106,000	<500	2,200
BSB7-33	<12,500	41,500	13,500	<12,500	<12,500	<12,500	441,000	60,500	308,000	<12,500	13,500
BSB7-40	<250	<250	<250	<250	<250	75	8,600	590	2,770	<250	<250
BSB7-41.5	<12.5	<12.5	<12.5	<12.5	<12.5	11.9	111	<12.5	55	<12.5	<12.5
BSB8-5	<125	<125	<125	<125	<125	<125	1,950	235	1,230	<125	<125
BSB8-10	<250	<250	<250	<250	<250	<250	1,410	80	425	<250	<250
BSB8-13	<250	<250	<250	<250	<250	<250	2,740	140	775	<250	<250
BSB8-18	<500	<500	<500	<500	<500	<500	2,300	1,250	6,550	<500	<500
BSB8-27.5	<250	<250	<250	<250	<250	<250	2,400	1,680	7,900	<250	2,600
BSB8-31	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	34,600	8,600	32,000	<2,500	<2,500
BSB8-35	<125	180	360	<125	<125	85	250	1,020	3,570	<125	150
BSB8-40	<250	<250	<250	<250	<250	<250	1,710	367	1,10	<250	<250
BSB8-45	<250	<250	<250	<250	<250	<250	2,190	472	1,110	<250	<250
BSB9-5	<1,000	4,400	13,700	<1,000	<1,000	<1,000	<1,000	6,600	6,550	<1,000	40,200
BSB9-8	<2,500	4,360	26,000	<2,500	<2,500	<2,500	12,900	14,300	81,300	<2,500	<2,500
BSB9-15	<250	845	2,440	<250	<250	1,570	2,360	1,440	7,880	<250	<250
BSB9-17	<125	177	427	<125	<125	285	572	323	1,700	<125	<125
BSB9-22.5	<25	80	145	<25	<25	130	315	150-	925	<25	<25
BSB9-24	<250	358	<250	<250	<250	<250	1,280	1,050	7,170	<250	<250
BSB9-27.5	<2,500	64,000	9,200	<2,500	<2,500	<2,500	93,400	40,800	205,000	<2,500	4,400
BSB9-32.5	<2,500	5,550	<2,500	<2,500	<2,500	<2,500	7,700	3,250	15,400	<2,500	<2,500
BSB9-35	<50	95	90	<50	<50	110	230	125	420	<50	<50
BSB9-40	<50	<50	<50	<50	<50	65	250	82	255	<50	<50
BSB10-2	<25	63.4	658	<25	<25	<25	<25	<25	<25	<25	<25
BSB10-7.5	<125	1,020	1,100	<125	<125	<125	<125	60	<125	<125	<125
BSB10-12.5	<10	69.3	25	<10	<10	<10	<10	<10	<10	<10	<10
BSB10-16	<100	<100	<100	<100	<100	<100	155	<100	<100	<100	<100
BSB10-22.5	<10	<10	<10	<10	<10	<10	7.5	<10	<10	<10	<10
BSB10-27.5	<125	63.4	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB10-30	<100	63.4	<100	<100	<100	<100	<100	42.5	97.5	<100	<100
BSB10-35	<10	63.4	7	<10	<10	<10	<10	<10	<10	<10	<10
BSB10-40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BSB11-9.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB11-14.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB11-19.5	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
BSB11-24.5	<125	<125	<125	<125	<125	125	357	<125	136	<125	<125
BSB11-29.5	<250	<250	<250	<250	<250	<250	244	409	1,800	<250	<250
BSB11-34.5	<125	<125	<125	<125	<125	65	5,410	903	4,410	<125	218
BSB11-39.5	<125	<125	<125	<125	<125	77.5	263	267	616	<125	<125
BSB11-42	<250	1,480	1,950	<250	<250	226	1690	4,110	12,700	<250	1,180
BSB11-44	<50	65	180	<50	<50	129	1540	255	649	<50	<50

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
BSB7-2.5	<50	<50	60	<50	195	<50	<50	<50	<50	70	<50
BSB7-7.5	<125	<125	<125	<125	155	<125	<125	<125	<125	107	<125
BSB7-15	34,400	<5000	59,000	<5000	224,000	<5000	<5000	<5000	9,000	18,000	<5000
BSB7-17	846	<500	2,560	<500	10,600	<500	<500	<500	700	1,320	<500
BSB7-22	2,240	<500	5,800	<500	22,400	<500	<500	<500	1,120	1,900	<500
BSB7-27.5	1,340	<250	3,150	<250	12,200	<250	<250	<250	535	795	<250
BSB7-30	5,840	<500	11,500	<500	40,200	<500	<500	<500	1,760	2,440	<500
BSB7-33	41,000	<12,500	78,000	<12,500	252,000	<12,500	<12,500	<12,500	12,500	13,000	<12,500
BSB7-40	125	<250	<250	<250	485	<250	<250	<250	<250	<250	<250
BSB7-41.5	<12.5	<12.5	<12.5	<12.5	25	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
BSB8-5	<125	<125	<125	<125	615	<125	<125	<125	<125	<125	<125
BSB8-10	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
BSB8-13	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
BSB8-18	575	<500	1,750	<500	6,880	<500	<500	<500	<500	925	<500
BSB8-27.5	786	<250	2,290	<250	8,840	<250	<250	<250	649	1,090	<250
BSB8-31	<2,500	<2,500	5,000	<2,500	18,600	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
BSB8-35	357	<125	857	<125	3,080	<125	<125	<125	140	240	<125
BSB8-40	<250	<250	<250	<250	838	<250	<250	<250	<250	<250	<250
BSB8-45	<250	<250	548	<250	1,850	<250	<250	<250	<250	<250	<250
BSB9-5	<1,000	<1,000	3,350	<1,000	3,350	<1,000	<1,000	<1,000	51,500	8,700	23,900
BSB9-8	3,900	<2,500	10,900	<2,500	76,400	<2,500	<2,500	<2,500	13,800	31,000	<2,500
BSB9-15	752	<250	1,600	<250	9,370	<250	<250	<250	1,550	4,760	<250
BSB9-17	150	<125	353	<125	1,990	<125	<125	<125	340	900	<125
BSB9-22.5	<25	<25	148	<25	770	<25	<25	<25	125	425	<25
BSB9-24	<250	<250	536	<250	2,470	<250	<250	<250	250	459	<250
BSB9-27.5	4,400	<2,500	2,700	<2,500	113,000	<2,500	<2,500	<2,500	9,400	14,800	<2500
BSB9-32.5	<2,500	<2,500	2,110	<2,500	8,890	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
BSB9-35	60	<50	80	<50	365	<50	<50	<50	50	160	<50
BSB9-40	<50	<50	<50	<50	175	<50	<50	<50	<50	70	<50
BSB10-2	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
BSB10-7.5	<125	<125	125	<125	1,230	<125	<125	<125	<125	605	<125
BSB10-12.5	<10	<10	<10	<10	40.8	<10	<10	<10	<10	<10	<10
BSB10-16	<100	<100	97.5	<100	308	<100	<100	<100	<100	<100	<100
BSB10-22.5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BSB10-27.5	<125	<125	<125	<125	210	<125	<125	<125	<125	<125	<125
BSB10-30	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
BSB10-35	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BSB10-40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
BSB11-9.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB11-14.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB11-19.5	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
BSB11-24.5	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB11-29.5	<250	<250	<250	<250	235	<250	<250	<250	<250	<250	<250
BSB11-34.5	405	<125	1,370	<125	4,560	<125	<125	<125	<125	212	<125
BSB11-39.5	<125	<125	138	<125	527	<125	<125	<125	<125	<125	<125
BSB11-42	3,010	<250	6,890	<250	21,000	<250	<250	<250	910	432	<250
BSB11-44	<50	<50	461	<50	636	<50	<50	<50	<<50	<50	<50

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
BSB7-2.5	<50	1,200	<500	<500	<500	<500	<50	<100	<50	NA	<300
BSB7-7.5	<125	<125	<1,250	<1,250	<1,250	<1,250	<125	<250	<125	NA	<750
BSB7-15	139,000	<5	<50,000	<50,000	<50,000	<50,000	<5,000	<10,000	<5000	NA	<30,000
BSB7-17	<500	2,970	5,320	<5,000	<5,000	<5,000	<500	<1,000	<500	NA	<3,000
BSB7-22	3,360	<5,000	<5,000	<5,000	<5,000	<5,000	<500	<1,000	<500	NA	<3,000
BSB7-27.5	2,250	1,210	4,720	<2,500	<2,500	<2,500	<250	<500	<250	NA	<1,500
BSB7-30	18,400	34,300	17,100	3,780	<5,000	<5,000	<500	<1,000	<500	NA	<3,000
BSB7-33	88,500	72,500	<125,000	<125,000	<125,000	<125,000	<12,500	<25,000	<12,500	NA	<75,000
BSB7-40	<250	1,950	7,850	<2,500	<2,500	<2,500	<250	<250	<250	NA	<750
BSB7-41.5	<12.5	842	442	203	<125	<125	<12.5	<25	<12.5	NA	<75
BSB8-5	<125	32,700	25,700	1,770	<1,250	<1,250	<125	<250	<125	NA	<750
BSB8-10	<250	76,000	50,000	1,590	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB8-13	<250	81,000	43,500	2,130	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB8-18	1,450	11,100	12,500	<5,000	<5,000	<5,000	<500	<1,000	<500	<10,000	<3,000
BSB8-27.5	1,810	5,170	7,100	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB8-31	<2,500	27,600	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB8-35	760	19,500	13,100	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
BSB8-40	<250	12,300	13,900	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB8-45	<250	8,400	14,700	1,800	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB9-5	2,250	5,850	12,000	<10,000	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000
BSB9-8	4,000	60,000	30,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB9-15	<250	24,300	10,400	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB9-17	570	9,900	9,850	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
BSB9-22.5	<25	5,450	9,500	<250	<250	<250	<25	<50	<25	<500	<150
BSB9-24	<250	4,650	11,200	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB9-27.5	36,600	23,200	<50	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB9-32.5	3,450	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB9-35	<50	1,910	4,670	<500	<500	<500	<50	<100	<50	<1,000	<300
BSB9-40	<50	1,850	3,950	<500	<500	<500	<50	<100	<50	<1,000	<300
BSB10-2	<25	<50	<50	<50	<50	<50	<25	<50	<25	<500	<150
BSB10-7.5	<125	<1,250	<1,250	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
BSB10-12.5	<10	<50	<50	<50	<50	<50	<10	<20	<10	<200	<60
BSB10-16	<100	2,900	7,730	<1,000	<1,000	<1,000	<100	<200	<100	<2,000	<600
BSB10-22.5	<10	400	125	<100	<100	<100	<10	<20	<10	<200	<60
BSB10-27.5	<125	3,690	7,350	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
BSB10-30	<100	2,630	8,530	<1,000	<1,000	<1,000	<100	<200	<100	<2,000	<600
BSB10-35	<10	<100	<100	<100	<100	<100	<10	<20	<10	<200	<60
BSB10-40	<10	<100	<100	<100	<100	<100	<10	<20	<10	<200	<60
BSB11-9.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB11-14.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB11-19.5	<250	<2,500	<2,500	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB11-24.5	<125	<1,250	<1,250	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
BSB11-29.5	<250	1,840	6,390	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB11-34.5	<125	2,100	<1250	<1,250	<1,250	143	194.4	<250	<125	<2,500	<750
BSB11-39.5	<125	39,700	23,400	<1,250	1,750	<1,250	<125	<250	<125	<2,500	<750
BSB11-42	<250	<2,500	<2,500	<2,500	<2,500	966	<250	<500	<250	<5,000	<1,500
BSB11-44	<50	2,440	<500	<500	<500	<500	<50	<100	<50	<1,000	<300

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
BSB12-9	13.3	<10	<10	<500	<500	676	160	<250	3,770	259
BSB12-10	NA	NA	NA	<110	<110	750	173	<250	4,470	292
BSB12-14.5	4,320	57	<10	<10,000	<10,000	7,660	8,040	<5,000	18,300	207,000
BSB12-19.5	290	41	<10	<500	<500	<250	<250	<250	366	458
BSB12-24.5	1,350	155	<10	<5,000	<5,000	<2,500	<2,500	<2,500	4,360	8,690
BSB12-28.5	17	<10	<10	<250	<250	671	242	<125	7,940	1,150
BSB12-34.5	367	14	<10	<500	<500	2,500	2,200	<250	2,660	1,570
BSB12-39.5	73	<10	<10	<5,000	<5,000	3,280	3,460	<2,500	<2,500	<2,500
BSB12-44.5	0.63	<10	<10	<10	<10	586	957	<5	83	<5
BSB13-4.5	602	37	<10	<1,000	<1000	<500	<500	<500	<500	1,600
BSB13-9.5	78	<10	<10	<250	168	285,0	<125	<125	758	244
BSB13-14.5	<10	<10	<10	<250	<250	689	<125	<125	2,520	247
BSB13-19.5	<10	<10	<10	<10	<10	929	<5	<5	1,070	213
BSB13-25	60	10	<10	<500	<500	340	<20	<250	294	<250
BSB13-27	408	40	<10	<2,000	<2,000	2,210	<1,000	<1,000	5,700	<1,000
BSB13-29.5	250	23	<10	<500	<500	1,120	370	<250	10,900	<250
BSB13-30	NA	NA	NA	<500	<500	1,100	460	<250	11,700	<250
BSB13-32	84	<10	<10	<500	<500	1,180	396	<250	7,090	<250
BSB13-34.5	287	30	<10	<500	<500	1,700	947	<250	3,550	<250
BSB13-39.5	<10	<10	<10	<500	<500	2340	380	<250	2,110	<250
BSB14-9.5	<10	<10	<10	<500	<500	461	297	<250	94	798
BSB14-14.5	<10	<10	<10	<250	<250	1130	1,050	<125	264	2,850
BSB14-19.5	<10	<10	<10	<10	<10	65	95	<5	95	110
BSB14-27	<10	<10	<10	<10	<10	91.6	225	<5	335	400
BSB14-28.5	<10	<10	<10	<500	<500	35	213	<250	<250	577
BSB14-29	NA	NA	NA	<10	<10	26.7	251	<5	27.4	304
BSB14-33	<10	<10	<10	<10	<10	109	635	<5	142	628
BSB14-39.5	<10	<10	<10	<250	<250	634	1,400	<125	108	<125
BSB14-42	<10	<10	<10	<10	<10	108	327	<5	19.3	<5
BSB16-4.5	10.9	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB16-9	21	<10	<10	<10	<10	<5	<5	<5	7.2	<5
BSB16-10	NA	NA	NA	<10	<10	<5	<5	<5	8.4	<5
BSB16-14.5	0.6	<10	<10	<10	<10	<5	<5	<5	<5	<5
BSB16-19.5	<1	12	<10	<10	<10	<5	<5	<5	<5	<5
BSB16-22	<1	<10	<10	<10	<10	<5	<5	<5	7.5	<5
BSB16-24.5	1,440	<10	<10	<2,000	<2,000	<1,000	<1,000	<1,000	1,330	<1,000
BSB16-29.5	758	76	<10	<1,000	<1,000	<500	1,040	<500	1,830	4.95
BSB16-34.5	1	<10	<10	<10	<10	164	341	<5	181	18.3
BSB16-39.5	<1	<10	<10	<10	<10	<5	179	<5	378	10.6
BSB16-44.5	0.5	<10	<10	<10	<10	202	238	5.4	658	<5
BSB16-49.5	<1	<10	<10	<10	<10	254	180	<5	698	<5
BSB17-0	NA	NA	NA	<20,000	<20,000	<10,00	<10,000	<10,000	42,700	<10,000
BSB17-10	3,000	200	<10	<2,000	<2,000	<1,000	<1,000	<1,000	664	<1,000
BSB17-14	8,760	452	<10	<25,000	<25,000	<12,500	<12,500	<12,500	23,600	11,100
BSB17-15	5,300	350	<10	<25,000	<25,000	<12,500	<12,500	<12,500	19,400	12,800
BSB17-20	5,000	504	<10	<25,000	<25,000	27,700	<12,500	<12,500	19,800	28,500
BSB17-22.5	2,150	171	<10	<2,000	<2,000	3,790	<1,000	<1,000	2,730	3,250
BSB17-25	1,760	143	<10	<5,000	<5,000	4,900	<2,500	<2,500	2,690	<2,500
BSB17-27.5	2,070	183	<10	<2,000	<2,000	16,200	2,270	<1,000	20,400	36,400

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
BSB12-9	<250	<250	<250	4,000	<250	<250	494	64	271	<250	<250
BSB12-10	<250	<250	<250	3,720	<250	<250	391	51,5	190	<250	<250
BSB12-14.5	<5,000	20,700	355,000	107,000	<5,000	<5,000	126000	28,200	129,000	<5,000	<5,000
BSB12-19.5	<250	<2500	<2500	<250	<250	<250	460	485	2,400	<250	<250
BSB12-24.5	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	10200	4,700	21,300	<2,500	<2,500
BSB12-28.5	<125	<125	<125	289	<125	<125	1140	170	476	<125	<125
BSB12-34.5	<250	<250	13,000	11,500	<250	<250	9320	2,350	9,240	<250	<250
BSB12-39.5	<2,500	<2,500	<2,500	23,400	<2,500	<2,500	3200	<2,500	<2,500	<2,500	<2,500
BSB12-44.5	<5	17	285	<5	<5	13.9	2.9	<5	3.5	<5	<5
BSB13-4.5	<500	<500	3,940	<500	<500	310	15,000	1,110	6,510	<500	816
BSB13-9.5	<125	<125	117	557	<125	56	1,170	55	258	<125	<125
BSB13-14.5	<125	<125	<125	775	96.3	105	2,480	<125	307	<125	<125
BSB13-19.5	<5	<5	<5	<5	<5	29.6	1,120	98.1	443	<5	5.8
BSB13-25	<250	<250	2,090	<250	<250	<250	<250	830	3700	<250	<250
BSB13-27	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	64800	12300	48800	<1,000	978
BSB13-29.5	<250	<250	<250	<250	532	197	111000	19400	90600	<250	2,110
BSB13-30	<250	<250	<250	<250	456	199	98600	18500	74300	<250	1,630
BSB13-32	<250	<250	<250	<250	<250	<250	12900	3080	7730	<250	671
BSB13-34.5	<250	<250	<250	<250	<250	<250	256	2120	3060	<250	1,300
BSB13-39.5	<250	<250	<250	<250	<250	<250	3480	1180	2280	<250	253
BSB14-9.5	<250	115	130	<250	<250	<250	<250	<250	<250	<250	<250
BSB14-14.5	<125	255	270	425	<125	<125	<125	<125	185	<125	<125
BSB14-19.5	<5	12.7	5	<5	<5	<5	14.2	4.2	65	<5	<5
BSB14-27	<5	89.3	15.6	<5	4.9	8.7	81.7	23.7	119	<5	<5
BSB14-28.5	<250	40	45	<250	<250	25	234	40	125	<250	<250
BSB14-29	<5	15.8	32.9	<5	<5	13.7	196	15.8	84.5	<5	<5
BSB14-33	<5	10	29.7	<5	<5	15.4	7.1	65	115	<5	<5
BSB14-39.5	<125	<125	<125	<125	<125	203	943	305	435	<125	<125
BSB14-42	<5	<5	16.2	<5	<5	3.2	2	10.2	<5	<5	<5
BSB16-4.5	<5	<5	<5	<5	<5	<5	6.2	9.4	37.9	6.3	<5
BSB16-9	<5	<5	<5	<5	<5	<5	81.4	93.1	222	33	4.6
BSB16-10	<5	<5	<5	<5	<5	<5	92.1	112	251	40	5.8
BSB16-14.5	<5	<5	<5	<5	<5	<5	2	<5	4	<5	<5
BSB16-19.5	<5	<5	<5	<5	<5	<5	5.9	7.6	15.3	<5	<5
BSB16-22	<5	<5	<5	<5	<5	<5	8.3	11.2	30.2	<5	<5
BSB16-24.5	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	54,700	46,900	101,000	<1,000	1,100
BSB16-29.5	<500	9,560	14,300	892	<500	<500	46,700	23,500	45,300	<500	703
BSB16-34.5	<5	345	137	22.7	<5	<5	525	61	268	<5	<5
BSB16-39.5	<5	64.7	13	8.1	<5	14.8	53.4	12	24.6	<5	<5
BSB16-44.5	<5	350	14.3	<5	8.4	19	12.5	4	10	<5	6.1
BSB16-49.5	<5	536	67.1	<5	18.4	<5	4.9	<5	113	<5	11.3
BSB17-0	<10,000	31,700	760,000	<10,000	<10,000	<10,000	943,000	193,000	1,450,000	<10,000	29,800
BSB17-10	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	67,000	9,500	64,100	<1,000	2,520
BSB17-14	<12,500	<12,500	<12,500	<12,500	<12,500	<12,500	450,000	55,000	343,000	<12,500	12,500
BSB17-15	<12,500	<12,500	<12,500	<12,500	<12,500	<12,500	320,000	73,600	388,000	<12,500	14,700
BSB17-20	<12,500	20,700	21,100	<12,500	<12,500	<12,500	546,000	94,500	451,000	<12,500	7,200
BSB17-22.5	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	120,000	27,600	118,000	<1,000	2,110
BSB17-25	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	131,000	45,100	195,000	<2,500	3,340
BSB17-27.5	<1,000	10,300	90,900	<1,000	<1,000	<1,000	195,000	41,900	172,000	<1,000	2,480

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
BSB12-9	<250	<250	<250	<250	281	<250	<250	<250	<250	<250	<250
BSB12-10	<250	<250	<250	<250	228	<250	<250	<250	<250	<250	<250
BSB12-14.5	49,700	<5,000	28,400	<5,000	156,000	<5,000	<5,000	<5,000	14,600	18,900	<5,000
BSB12-19.5	1,860	<250	1,020	<250	7,050	<250	<250	<250	899	1,250	<250
BSB12-24.5	13,700	<2,500	9,460	<2,500	65,200	<2,500	<2,500	<2,500	4,570	13,100	<2,500
BSB12-28.5	<125	<125	<125	<125	403	<125	<125	<125	<125	<125	<125
BSB12-34.5	3,830	<250	2,370	<250	17,700	<250	<250	<250	1,880	2,590	<250
BSB12-39.5	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
BSB12-44.5	<5	<5	8.2	<5	14.2	<5	<5	<5	<5	<5	<5
BSB13-4.5	3,060	<500	7,450	<500	21,200	<500	<500	<500	940	1,140	<500
BSB13-9.5	<125	<125	<125	<125	259	<125	<125	<125	<125	<125	<125
BSB13-14.5	<125	<125	<125	<125	205	<125	<125	<125	<125	<125	<125
BSB13-19.5	62	<5	26.1	<5	125	<5	<5	<5	<5	22.1	<5
BSB13-25	<250	<250	693	<250	2,720	<250	<250	<250	<250	<250	<250
BSB13-27	11,100	<1,000	5,030	<1,000	17,000	<1,000	<1,000	<1,000	1,170	<1000	<1,000
BSB13-29.5	3,780	<250	8,770	<250	32,100	<250	<250	<250	2,340	1,880	<250
BSB13-30	2,860	<250	7,260	<250	25,500	<250	<250	<250	1,740	1,600	<250
BSB13-32	1,200	<250	2,920	<250	10,600	<250	255	<250	8,010	307	<250
BSB13-34.5	2,480	<250	6,070	<250	18,700	260	251	<250	1,470	273	<250
BSB13-39.5	<250	<250	1,310	<250	4,320	<250	<250	<250	319	<250	<250
BSB14-9.5	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
BSB14-14.5	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
BSB14-19.5	<5	<5	15	<5	68	<5	<5	<5	<5	7	<5
BSB14-27	23.5	<5	10	6	39	<5	<5	<5	<5	<5	<5
BSB14-28.5	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
BSB14-29	19.8	<5	7.5	<5	27.2	<5	<5	<5	<5	<5	<5
BSB14-33	<5	<5	<5	<5	8	<5	<5	<5	<5	<5	<5
BSB14-39.5	<125	<125	272	<125	332	<125	<125	<125	<125	107	<125
BSB14-42	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB16-4.5	38.7	<5	24.2	14.2	96.4	<5	<5	<5	<5	<5	<5
BSB16-9	14.2	7	61.4	<5	240	<5	<5	<5	<5	<5	<5
BSB16-10	16.6	9.4	73.3	<5	285	<5	<5	<5	<5	<5	<5
BSB16-14.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
BSB16-19.5	<5	<5	<5	<5	7.4	<5	<5	<5	<5	<5	<5
BSB16-22	<5	<5	<5	<5	12.2	<5	<5	<5	<5	8.9	<5
BSB16-24.5	2,090	<1,000	6,200	<1,000	21,100	<1,000	<1,000	<1,000	1,400	<1,000	<1,000
BSB16-29.5	1,480	<500	3,970	<500	14,400	<500	<500	<500	965	<500	<500
BSB16-34.5	17.1	<5	12.7	<5	67.3	<5	<5	<5	<5	8.8	<5
BSB16-39.5	<5	<5	<5	<5	5.2	<5	<5	<5	<5	12	<5
BSB16-44.5	<5	<5	<5	<5	13.8	<5	<5	<5	<5	25	<5
BSB16-49.5	<5	<5	45.2	<5	208	<5	<5	<5	<5	27.2	<5
BSB17-0	73,700	<10,000	199,000	<10,000	631,000	21,000	23,500	<10,000	43,200	<10,000	<10,000
BSB17-10	4,730	<1,000	14,000	<1,000	<1,000	<1,000	<1,000	<1,000	3,480	960	<1,000
BSB17-14	151,000	<12,500	60,700	<12,500	207,000	<12,500	<12,500	<12,500	30,000	<12,500	<12,500
BSB17-15	150,000	<12,500	71,000	<12,500	234,000	<12,500	<12,500	<12,500	34,400	<12,500	<12,500
BSB17-20	13,400	<12,500	39,100	<12,500	161,000	<12,500	<12,500	<12,500	<12,500	15,400	<12,500
BSB17-22.5	4,150	<1,000	12,600	<1,000	47,200	<1,000	<1,000	<1,000	2,790	3,550	<1,000
BSB17-25	6,010	<2,500	17,000	<2,500	70,000	<2,500	<2,500	<2,500	4,450	2,910	<2,500
BSB17-27.5	4,320	<1,000	14,300	<1,000	54,100	<1,000	<1,000	<1,000	2,970	2,770	<1,000

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
BSB12-9	<250	9,600	13,000	525	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB12-10	<250	13,600	15,400	468	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB12-14.5	<5,000	46,200	<50,000	<50,000	<50,000	<5,000	<10,000	<5,000	<100,000	<30,000	
BSB12-19.5	<250	4,230	1,750	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB12-24.5	<2,500	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB12-28.5	<125	4,790	2,770	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
BSB12-34.5	<250	17,900	8,630	1740	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
BSB12-39.5	<2,500	43,000	52,500	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB12-44.5	<5	48	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB13-4.5	<500	44,700	<5,000	<5,000	<5,000	<5,000	<500	<1,000	<500	<10,000	<3,000
BSB13-9.5	<125	32,500	9,430	660	<1,250	<1,250	<125	<250	<125	27,300	<750
BSB13-14.5	<125	39,000	14,700	685	<1,250	<1,250	<125	2,860	<125	4,640	<750
BSB13-19.5	<5	12,300	6,140	1,260	<50	<50	<5	<10	<5	<100	<30
BSB13-25	<250	9,040	5,460	1,270	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB13-27	<1,000	69,500	12,500	8,180	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000
BSB13-29.5	<250	29,100	13,000	11,800	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB13-30	<250	31,500	15,400	11,900	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB13-32	<250	5,820	6,500	1,380	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB13-34.5	<250	3,570	5,250	3,650	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB13-39.5	<250	2,460	3,960	<2,500	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB14-9.5	<250	1,430	3,850	<2,500	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB14-14.5	<125	1,050	2,630	<1,250	<1,250	<1,250	<125	<250	<125	<2500	<750
BSB14-19.5	<5	1,000	2,540	<50	<50	<50	<5	<10	<5	<100	<30
BSB14-27	<5	222	59	34	<50	<50	<5	<10	<5	<100	<30
BSB14-28.5	<250	1,230	1,800	<2,500	<2,500	<2,500	<250	<500	<250	<5000	<1,500
BSB14-29	<5	418	299	85	<50	<50	<5	<10	<5	<100	<30
BSB14-33	<5	418	37	<50	<50	<50	<5	<10	<5	<500	<30
BSB14-39.5	<125	966	2,800	<1,250	<1,250	<1,250	<125	<250	<125	<2500	<750
BSB14-42	<5	83	46	<50	<50	<50	<5	<10	<5	<100	<30
BSB16-4.5	<5	7,300	7,666	276	<50	<50	<5	<10	<5	<100	<30
BSB16-9	<5	39,400	8,640	3,310	<50	<50	<5	<10	<5	<100	<30
BSB16-10	<5	46,000	8,640	3,770	<50	<50	<5	<10	<5	<100	<30
BSB16-14.5	<5	4,100	2,970	449	<50	<50	<5	<10	<5	<100	<30
BSB16-19.5	<5	201	<50	73	<50	<50	<5	<10	<5	<100	<30
BSB16-22	<5	138	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB16-24.5	<1,000	5,980	<10,000	<10,000	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000
BSB16-29.5	<500	5,220	2,500	3,960	<5,000	<5,000	<500	<1,000	<500	<10,000	<3,000
BSB16-34.5	<5	27	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB16-39.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB16-44.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB16-49.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
BSB17-0	<10,000	49,300	<100,000	<100,000	<100,000	<100,000	<10,000	<20,000	<10,000	<200,000	<60,000
BSB17-10	<1,000	16,300	<10,000	<10,000	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000
BSB17-14	<12,500	<125,000	<125,000	<125,000	<125,000	<125,000	<12,500	<25,000	<12,500	<250,000	<75,000
BSB17-15	<12,500	<125,000	<125,000	<125,000	<125,000	<125,000	<12,500	<25,000	<12,500	<250,000	<75,000
BSB17-20	<12,500	<125,000	<125,000	<125,000	<125,000	<125,000	<12,500	<25,000	<12,500	<250,000	<75,000
BSB17-22.5	<1,000	<10,000	<10,000	<10,000	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000
BSB17-25	<2,500	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB17-27.5	<1,000	20,800	7,650	14,000	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
BSB17-30	254	29	<10	<2,000	<2,000	6,690	1,140	<1,000	14,400	14,900
BSB17-35	80	8	<10	<5,000	<5,000	2,110	<2,500	<2,500	8,460	<2,500
BSB17-40	<10	<10	<10	<500	<500	916	630	<250	6,820	<250
BSB17-45	<10	<10	<10	<500	<500	337	282	<250	1,860	<250
BH1-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH1-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	18
BH2-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH2-10	NA	NA	NA	NA	NA	76	29	NA	NA	91
BH2-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH2-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3-5	NA	NA	NA	NA	NA	62	ND	NA	NA	19
BH3-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH3-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH3-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH4-5	NA	NA	NA	NA	NA	98	ND	NA	NA	65
BH4-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	39
BH4-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH5-5	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH5-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	30
BH5-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH5-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH6-5	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH6-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH6-15	NA	NA	NA	NA	NA	25	ND	NA	NA	230
BH6-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	29
BH6-25	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH6-30	NA	NA	NA	NA	NA	ND	ND	NA	NA	45
BH6-35	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH6-40	NA	NA	NA	NA	NA	310	270	NA	NA	720
BH6-45	NA	NA	NA	NA	NA	180	680	NA	NA	900
BH6-50	NA	NA	NA	NA	NA	56	31	NA	NA	18
BH7-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7-10	NA	NA	NA	NA	NA	18	21	NA	NA	11
BH7-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	71
BH7-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH8-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH8-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH8-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH8-25	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH9-5	NA	NA	NA	NA	NA	30	ND	NA	NA	56
BH9-15	NA	NA	NA	NA	NA	24	ND	NA	NA	ND
BH9-25	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH10-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH10-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
BSB17-30	<1,000	5,130	54,400	2,060	<1,000	<1000	112,000	17,700	37,400	<1,000	1,430
BSB17-35	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	37,300	7,060	30,000	<2,500	<2,500
BSB17-40	<250	<250	<250	<250	<250	179	8,720	364	2,430	<250	<250
BSB17-45	<250	<250	<250	<250	<250	101	1,450	110	2,550	<250	<250
BH1-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-15	NA	ND	ND	NA	NA	ND	19	ND	ND	NA	NA
BH1-20	NA	ND	16	NA	NA	ND	21	ND	12	NA	NA
BH2-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH2-10	NA	40	210	NA	NA	21	250	87	412	NA	NA
BH2-15	NA	ND	ND	NA	NA	ND	12	ND	ND	NA	NA
BH2-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3-5	NA	10	120	NA	NA	ND	440	62	450	NA	NA
BH3-10	NA	ND	ND	NA	NA	ND	160	ND	70	NA	NA
BH3-15	NA	ND	ND	NA	NA	ND	28	ND	ND	NA	NA
BH3-20	NA	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
BH4-5	NA	ND	ND	NA	NA	ND	150	ND	ND	NA	NA
BH4-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4-15	NA	ND	ND	NA	NA	ND	33	ND	ND	NA	NA
BH4-20	NA	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
BH5-5	NA	ND	ND	NA	NA	ND	160	42	175	NA	NA
BH5-10	NA	ND	30	NA	NA	ND	360	53	163	NA	NA
BH5-15	NA	ND	ND	NA	NA	ND	35	ND	15	NA	NA
BH5-20	NA	ND	ND	NA	NA	ND	12	ND	ND	NA	NA
BH6-5	NA	16	35	NA	NA	ND	>700	71	320	NA	NA
BH6-10	NA	ND	ND	NA	NA	ND	40	ND	13	NA	NA
BH6-15	NA	60	330	NA	NA	11	1900	220	>2300	NA	NA
BH6-20	NA	ND	26	NA	NA	ND	150	13	67	NA	NA
BH6-25	NA	ND	ND	NA	NA	ND	32	ND	10	NA	NA
BH6-30	NA	ND	750	NA	NA	ND	870	260	1650	NA	NA
BH6-35	NA	ND	ND	NA	NA	ND	26	ND	12	NA	NA
BH6-40	NA	33	150	NA	NA	160	820	220	530	NA	NA
BH6-45	NA	87	940	NA	NA	160	1,600	1,100	2,570	NA	NA
BH6-50	NA	ND	10	NA	NA	67	65	39	123	NA	NA
BH7-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7-10	NA	ND	20	NA	NA	120	20	ND	13	NA	NA
BH7-15	NA	ND	ND	NA	NA	46	ND	ND	ND	NA	NA
BH7-20	NA	ND	ND	NA	NA	ND	28	ND	ND	NA	NA
BH8-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-10	NA	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
BH8-15	NA	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
BH8-20	NA	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
BH8-25	NA	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
BH9-5	<10	20	37	460	NA	ND	410	37	250	NA	NA
BH9-15	<10	<10	ND	730	NA	ND	190	32	161	NA	NA
BH9-25	<10	<50	ND	ND	NA	ND	ND	ND	ND	NA	NA
BH10-10	NA	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA
BH10-20	NA	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
BSB17-30	2,340	<1,000	7,820	<1,000	30,600	<1,000	<1,000	<1,000	1,750	1,170	<1,000
BSB17-35	6,520	<2,500	8,110	<2,500	10,100	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
BSB17-40	<250	<250	221	<250	404	<250	<250	<250	<250	<250	<250
BSB17-45	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250
BH1-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH2-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH2-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH2-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH2-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH5-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH5-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH5-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH5-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH6-50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH9-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH9-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH9-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH10-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH10-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
BSB17-30	<1,000	24,200	9,000	7,220	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000
BSB17-35	<2,500	28,400	10,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
BSB17-40	<250	58,000	18,500	7,000	<2,500	<2,500	<250	<50	<250	<5000	<1,500
BSB17-45	<250	18,800	7,500	2,450	<2,500	<2,500	<250	<50	<250	<5000	<1,500
BH1-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH1-15	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH1-20	NA	NA	200	180	NA	NA	NA	NA	NA	NA	NA
BH2-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH2-10	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH2-15	NA	NA	ND	60	NA	NA	NA	NA	NA	NA	NA
BH2-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH3-5	NA	NA	ND	230	NA	NA	NA	NA	NA	NA	NA
BH3-10	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH3-15	NA	NA	110	370	NA	NA	NA	NA	NA	NA	NA
BH3-20	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH4-5	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH4-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH4-15	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH4-20	NA	NA	ND	980	NA	NA	NA	NA	NA	NA	NA
BH5-5	NA	NA	1,800	2,100	NA	NA	NA	NA	NA	NA	NA
BH5-10	NA	NA	640	2,100	NA	NA	NA	NA	NA	NA	NA
BH5-15	NA	NA	600	1,300	NA	NA	NA	NA	NA	NA	NA
BH5-20	NA	NA	300	600	NA	NA	NA	NA	NA	NA	NA
BH6-5	NA	NA	110	120	NA	NA	NA	NA	NA	NA	NA
BH6-10	NA	NA	40	120	NA	NA	NA	NA	NA	NA	NA
BH6-15	NA	NA	1,300	1,900	NA	NA	NA	NA	NA	NA	NA
BH6-20	NA	NA	240	600	NA	NA	NA	NA	NA	NA	NA
BH6-25	NA	NA	110	450	NA	NA	NA	NA	NA	NA	NA
BH6-30	NA	NA	1,000	2,000	NA	NA	NA	NA	NA	NA	NA
BH6-35	NA	NA	200	620	NA	NA	NA	NA	NA	NA	NA
BH6-40	NA	NA	1,200	2,300	NA	NA	NA	NA	NA	NA	NA
BH6-45	NA	NA	750	2,200	NA	NA	NA	NA	NA	NA	NA
BH6-50	NA	NA	ND	1,200	NA	NA	NA	NA	NA	NA	NA
BH7-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH7-10	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH7-15	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH7-20	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH8-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH8-10	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH8-15	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH8-20	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH8-25	NA	NA	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH9-5	NA	550	120	450	NA	NA	NA	NA	NA	NA	NA
BH9-15	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH9-25	NA	380	390	170	NA	NA	NA	NA	NA	NA	NA
BH10-10	NA	250	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH10-20	NA	600	ND	ND	NA	NA	NA	NA	NA	NA	NA

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
BH11-25	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH11-30	NA	NA	NA	NA	NA	ND	210	NA	NA	1,200
BH11-35	NA	NA	NA	NA	NA	81	120	NA	NA	1,000
BH12-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH12-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH13-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH13-30	NA	NA	NA	NA	NA	ND	ND	NA	NA	210
BH13-40	NA	NA	NA	NA	NA	ND	160	NA	NA	280
BH14-5	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH14-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH14-15	NA	NA	NA	NA	NA	ND	ND	NA	NA	2,300
BH14-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	28,000
BH14-25	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH14-30	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH14-35	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
BH14-40	NA	NA	NA	NA	NA	ND	ND	NA	NA	1,800
BH15-2	NA	NA	NA	<1000	<1000	4,000	1,600	<1000	<1000	1,800
BH15-4	NA	NA	NA	<1000	<1000	1,400	<1000	<1000	<1000	2,700
BH15-6	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	1,900
BH15-10	NA	NA	NA	<1000	<1000	1,200	<1000	<1000	<1000	5,700
BH15-15	NA	NA	NA	<400	<400	<400	810	<400	<400	760
BH15-20	NA	NA	NA	<1000	<1000	5,400	<1000	<1000	2,000	18,000
BH16-2	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	1,200
BH16-6	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	1,100
BH16-10	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	2,200
BH17-2	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	<1000
BH17-6	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	1,800
BH17-10	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	<1000
BH18-2	NA	NA	NA	<1000	<1000	<1000	<1000	<1000	<1000	<1000
BH18-6	NA	NA	NA	<400	<400	<400	<400	<400	<400	<400
BH18-10	NA	NA	NA	<400	<400	<400	<400	<400	<400	<400
E11-1.5	<10	<10	<10	<2	<5	8.3	<5	<5	17	<5
E11-5	11.2	<10	<10	<2	<5	14	<5	<5	61	<5
E11-10	10.4	<10	<10	<2	<5	34	<5	<5	327	9
E11-15	<10	<10	<10	<2	<5	34	<5	<5	246	<5
E11-19.5	<10	<10	<10	<2	<5	6.4	<5	<5	35	<5
E11-25	<10	<10	<10	<100	<250	330	<250	<250	3,560	<250
E11-30	148	<10	<10	<100	<250	674	374	<250	8,560	<250
E11-35	<10	<10	<10	<2	<5	182	163	<5	1,790	<5
E11-40	<10	<10	<10	<2	<5	260	130	<5	787	<5
E12-1.5	<10	<10	<10	<2	<5	<5	<5	<5	<5	<5
E12-5	<10	<10	<10	<2	<5	<5	<5	<5	9.00	<5
E12-10	<10	<10	<10	<2	<5	<5	<5	<5	<5	<5
E12-15	5,440	194	<10	<1,000	<2,500	<2,500	<2,500	<2,500	850J	<2,500
E12-16	NA	NA	NA	<1,000	<2,500	<2,500	<2,500	<2,500	700J	<2,500
E12-20	200	11	<10	<100	<100	<250	<250	<250	69J	<250
E12-25	NA	NA	NA	<100	<100	<250	<250	<250	1,460	<250
E12-25.5	26	<10	<10	<20		162		<50	2,900	<50

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
BH11-25	NA	ND	ND	ND	NA	ND	59	ND	50	NA	NA
BH11-30	NA	76	ND	ND	NA	ND	10,000	11,000	24,300	NA	NA
BH11-35	NA	ND	330	ND	NA	ND	1,900	1,400	2,630	NA	NA
BH12-10	NA	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA
BH12-20	NA	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA
BH13-15	NA	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA
BH13-30	NA	ND	90	ND	NA	ND	ND	ND	ND	NA	NA
BH13-40	NA	120	230	300	NA	ND	98	ND	60	NA	NA
BH14-5	NA	8,700	ND	ND	NA	ND	67,000	45,000	233,000	NA	NA
BH14-10	NA	8,400	ND	ND	NA	ND	98,000	29,000	112,000	NA	NA
BH14-15	NA	ND	8,900	ND	NA	ND	27,000	9,300	28,300	NA	NA
BH14-20	NA	ND	48,000	ND	NA	ND	150,000	44,000	128,000	NA	NA
BH14-25	NA	ND	19,000	ND	NA	ND	37,000	17,000	52,000	NA	NA
BH14-30	NA	ND	ND	7,800	NA	10,000	3,300	ND	1,900	NA	NA
BH14-35	NA	ND	ND	ND	NA	ND	1,600	ND	ND	NA	NA
BH14-40	NA	ND	1,400	ND	NA	ND	2,400	2,600	8,300	NA	NA
BH15-2	<1000	<1000	3,700	12,000	<1000	<1000	300,000	100,000	410,000	<1000	10,000
BH15-4	<1000	<1000	3,400	4,400	<1000	<1000	48,000	11,000	63,000	<1000	<1000
BH15-6	<1000	<1000	2,600	2,700	<1000	<1000	25,000	3,200	19,400	<1000	<1000
BH15-10	<1000	<1000	5,500	1,800	<1000	<1000	46,000	4,700	26,200	<1000	4,800
BH15-15	<400	<400	<400	<400	<400	<400	620	<400	<800	<400	<400
BH15-20	<1000	2,500	2,300	<1000	<1000	<1000	39,000	3,300	5,600	<1000	2,200
BH16-2	<1000	<1000	2,100	1,500	<1000	<1000	64,000	32,000	166,000	<1000	3,800
BH16-6	<1000	<1000	3,800	2,500	<1000	<1000	25,000	4,600	29,000	<1000	4,400
BH16-10	<1000	<1000	3,500	1,800	<1000	<1000	15,000	<1000	6,600	<1000	2,500
BH17-2	<1000	<1000	<1000	<1000	<1000	<1000	9,200	<1000	6,800	<1000	<1000
BH17-6	<1000	<1000	5,400	<1000	<1000	<1000	22,000	2,300	15,100	<1000	3,000
BH17-10	<1000	<1000	<1000	<1000	<1000	<1000	1,400	<1000	<2000	<1000	<1000
BH18-2	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<1000	<2000	<1000	<1000
BH18-6	<400	<400	<400	<400	<400	<400	<400	<400	<800	<400	<400
BH18-10	<400	<400	<400	<400	<400	<400	<400	<400	<800	<400	<400
E11-1.5	<5	25	14	<5	<5	<1	12.5	7	75	<5	<5
E11-5	<5	29	<2	<5	<5	<1	13	<1	22	<5	<5
E11-10	<5	18.1	<2	<5	<5	<1	2.1	19.4	85	<5	<5
E11-15	<5	<2	<2	<5	<5	<1	20	27	116	<5	<5
E11-19.5	<5	2.9	<2	<5	<5	<1	16	5	19	<5	<5
E11-25	<250	<100	<100	<250	<250	<50	6,940	1,170	4,650	<250	<250
E11-30	<250	<100	<100	<250	109J	<50	3,310	5,940	25,200	<250	400
E11-35	<5	<2	<2	<5	9.8	13.8	191	286	888	<5	23.4
E11-40	<5	<2	<2	<5	10	21.4	97.7	168	188	<5	5.4
E12-1.5	<5	<2	30.7	<5	<5	<1	<1	<1	<1	<5	<5
E12-5	<5	<2	112	<5	<5	<1	<1	<1	<1	<5	<5
E12-10	<5	<2	<2	<5	<5	<1	<1	<1	<1	<5	<5
E12-15	<2,500	<1,000	<1,000	<2,500	<2,500	<500	16,800	24,500	61,900	<2,500	2,700
E12-16	<2,500	<1,000	<1,000	<2,500	<2,500	<500	11,600	23,000	51,200	<2,500	2,440
E12-20	<250	<100	<100	<250	<250	<50	620	1,440	3,840	<250	106
E12-25	<250	<100	<100	<250	<250	<50	6,100	7,575	13,300	<250	257
E12-25.5	<50	<20	<20	<50	<50	<10	5,070	1,670	2,130	<50	<50

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
BH11-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH11-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH11-35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH12-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH12-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH13-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH13-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH13-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH14-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BH15-2	24,000	<1000	130,000	<1000	150,000	14,000	18,000	<1000	<1000	6,100	NA
BH15-4	7,700	<1000	51,000	<1000	69,000	<1000	3,300	<1000	<1000	4,100	NA
BH15-6	6,000	<1000	44,000	<1000	58,000	<1000	2,500	<1000	<1000	2,500	NA
BH15-10	8,400	<1000	68,000	<1000	85,000	<1000	2,200	<1000	<1000	2,600	NA
BH15-15	<400	<400	550	<400	730	<400	<400	<400	<400	<400	NA
BH15-20	3,800	<1000	30,000	<1000	35,000	<1000	1,200	<1000	<1000	2,800	NA
BH16-2	9,400	<1000	51,000	<1000	64,000	<1000	7,000	<1000	<1000	2,900	NA
BH16-6	7,200	<1000	53,000	<1000	66,000	<1000	2,000	<1000	<1000	2,800	NA
BH16-10	4,300	<1000	33,000	<1000	42,000	<1000	<1000	<1000	<1000	1,700	NA
BH17-2	1,900	<1000	18,000	<1000	20,000	<1000	<1000	<1000	<1000	1,400	NA
BH17-6	4,900	<1000	37,000	<1000	47,000	<1000	<1000	<1000	<1000	3,000	NA
BH17-10	<1000	<1000	<1000	<1000	1,200	<1000	<1000	<1000	<1000	<1000	NA
BH18-2	<1000	<1000	<1000	<1000	1,400	<1000	<1000	<1000	<1000	2,400	NA
BH18-6	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	NA
BH18-10	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400	NA
E11-1.5	29	<5	25	<5	88	<5	<5	<5	5.3	12	<2
E11-5	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	<2
E11-10	<5	<5	6.5	<5	26	<5	<5	<5	<5	<5	<2
E11-15	16	<5	8	<5	41	<5	<5	<5	<5	10	<2
E11-19.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2
E11-25	<250	<250	320	<250	1,350	<250	<250	<250	<250	290	<100
E11-30	690	<250	1,800	<250	7,000	<250	<250	<250	421	1,010	<100
E11-35	38.3	<5	108	<5	471	<5	<5	<5	19.4	89	<2
E11-40	11	<5	24	<5	125	<5	<5	<5	<5	66	<2
E12-1.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2
E12-5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2
E12-10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2
E12-15	6,070	<2,500	18,000	<2,500	58,500	<2,500	<2,500	<2,500	5,320	3,890	<1,000
E12-16	5,730	<2,500	15,100	<2,500	55,400	<2,500	<2,500	<2,500	3,860	5,500	<1,000
E12-20	261	<250	840	<250	352	<250	<250	<250	240	516	<100
E12-25	525	<250	1,350	<250	5,700	<250	<250	<250	290	762	<100
E12-25.5	<50	<50	72	<50	355	<50	<50	<50	33J	79	<20

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
BH11-25	NA	1,300	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH11-30	NA	ND	500	ND	NA	NA	NA	NA	NA	NA	NA
BH11-35	NA	ND	ND	700	NA	NA	NA	NA	NA	NA	NA
BH12-10	NA	27,000	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH12-20	NA	8,600	ND	54	NA	NA	NA	NA	NA	NA	NA
BH13-15	NA	6,900	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH13-30	NA	1,300	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH13-40	NA	11,000	530	150	NA	NA	NA	NA	NA	NA	NA
BH14-5	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH14-10	NA	41,000	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH14-15	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH14-20	NA	50,000	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH14-25	NA	39,000	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH14-30	NA	31,000	ND	9,300	NA	NA	NA	NA	NA	NA	NA
BH14-35	NA	55,000	15,000	6,300	NA	NA	NA	NA	NA	NA	NA
BH14-40	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
BH15-2	<1000	3,000	1,500	<20	<2.0	NA	<1000	NA	<1000	NA	NA
BH15-4	<1000	2300E	1500E	5.3	<2.0	NA	<1000	NA	<1000	NA	NA
BH15-6	<1000	1500E	850E	2.9	<2.0	NA	<1000	NA	<1000	NA	NA
BH15-10	<1000	250E	170E	3.4	<2.0	NA	<1000	NA	<1000	NA	NA
BH15-15	<400	52	26	1.4	<0.8	NA	<400	NA	<400	NA	NA
BH15-20	<1000	25	16	2.2	<0.8	NA	<1000	NA	<1000	NA	NA
BH16-2	<1000	450	220	5.0	<2.0	NA	<1000	NA	<1000	NA	NA
BH16-6	<1000	490E	290E	3.5	<2.0	NA	<1000	NA	<1000	NA	NA
BH16-10	<1000	130E	74	<2.0	<2.0	NA	<1000	NA	<1000	NA	NA
BH17-2	<1000	96E	49	5.3	<2.0	NA	<1000	NA	<1000	NA	NA
BH17-6	<1000	150	64	<2.0	<2.0	NA	<1000	NA	<1000	NA	NA
BH17-10	<1000	120E	55	<2.0	<2.0	NA	<1000	NA	<1000	NA	NA
BH18-2	<1000	0.15	0.05	<0.02	<0.02	NA	<1000	NA	<1000	NA	NA
BH18-6	<400	4.4	1.8	<0.8	<0.8	NA	<400	NA	<400	NA	NA
BH18-10	<400	1.0	<0.8	<0.8	<0.8	NA	<400	NA	<400	NA	NA
E11-1.5	<5	3,880	95	<25	<25	<25	<5	<5	<2	<100	<10
E11-5	<5	2,120	170	<25	<25	<25	<5	<5	<2	<100	<10
E11-10	<5	2,670	351	266	<25	<25	<5	<5	<2	1,700	<10
E11-15	<5	4,150	778	<25	<25	<25	<5	<5	<2	5,030	<10
E11-19.5	<5	2,260	451	<25	<25	<25	<5	<5	<2	3,410	<10
E11-25	<250	16,700	10,900	<1,250	<1,250	<1,250	<250	<250	<100	3,190	<500
E11-30	<250	47,100	27,500	<1,250	<1,250	<1,250	<250	<250	<100	3,310	<500
E11-35	<5	551	526	<25	<25	<25	<5	<5	<2	2,340	<10
E11-40	<5	110	<25	<25	<25	<25	<5	<5	<2	<100	<10
E12-1.5	<5	<25	<25	<25	<25	<25	<5	<5	<2	<100	<10
E12-5	<5	<25	<25	<25	<25	<25	<5	<5	<2	176	<10
E12-10	<5	<25	<25	<25	<25	<25	<5	<5	<2	<100	<10
E12-15	<2,500	<12,500	<12,500	<12,500	<12,500	<12,500	<2,500	<2,500	<1,000	<50,000	<5,000
E12-16	<2,500	<12,500	<12,500	<12,500	<12,500	<12,500	<2,500	<2,500	<1,000	<50,000	<5,000
E12-20	<250	1,420	6360	<1,250	<1,250	<1,250	<250	<250	<100	<5,000	<500
E12-25	<250	<1,250	<1,250	<1,250	<1,250	<1,250	<250	<250	<100	<5,000	<500
E12-25.5	<50	985	4750	<250	<250	<250	<50	<50	<20	<200	<20

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
S-1	NA	NA	NA	NA	NA	ND	ND	NA	NA	6,400
S-2	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW1-1	NA	NA	NA	NA	NA	21	270	NA	NA	120
MW1-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW1-15	NA	NA	NA	NA	NA	21	92	NA	NA	150
MW1-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW1-25	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW1-30	NA	NA	NA	NA	NA	240	ND	NA	NA	3,500
MW1-35	NA	NA	NA	NA	NA	39	ND	NA	NA	ND
MW1-40	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW2-5	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW2-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW2-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW2-30	NA	NA	NA	NA	NA	10	37	NA	NA	69
MW2-40	NA	NA	NA	NA	NA	30	102	NA	NA	88
MW3-5	NA	NA	NA	NA	NA	ND	ND	NA	NA	18
MW3-10	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW3-20	NA	NA	NA	NA	NA	ND	ND	NA	NA	ND
MW3-30	NA	NA	NA	NA	NA	ND	332	NA	NA	88
MW3-40	NA	NA	NA	NA	NA	23	ND	NA	NA	ND
MW4-5	NA	NA	NA	NA	NA	<50	<50	NA	NA	<50
MW4-10	NA	NA	NA	NA	NA	<50	<50	NA	NA	71
MW4-20	NA	NA	NA	NA	NA	<1000	<1000	NA	NA	54,700
MW5-2	NA	NA	NA	NA	NA	<5	<5	NA	NA	5
MW5-5	NA	NA	NA	NA	NA	31	<5	NA	NA	<5
MW5-10	NA	NA	NA	NA	NA	<5	<5	NA	NA	<5
MW5-20	NA	NA	NA	NA	NA	<5	<5	NA	NA	<5
MW6-5	NA	NA	NA	NA	NA	301	10	NA	NA	412
MW6-10	NA	NA	NA	NA	NA	78	18	NA	NA	312
MW6-20	NA	NA	NA	NA	NA	<10	<10	NA	NA	2,970
MW7-5	NA	NA	NA	NA	NA	12	<5	NA	NA	<5
MW7-10	NA	NA	NA	NA	NA	<5	<5	NA	NA	<5
MW7-20	NA	NA	NA	NA	NA	<5	<5	NA	NA	<5
MW7-30	NA	NA	NA	NA	NA	28	<5	NA	NA	<5
MW7-40	NA	NA	NA	NA	NA	27	<5	NA	NA	<5
MW8-3.5	<1	NA	NA	<10	<10	27.5	<5	<5	8	42.5
MW8-10	<1	NA	NA	<10	<10	40	<5	<5	20	52.5
MW8-15	<1	NA	NA	<10	<10	47.5	5.6	<5	25	45
MW8-19	<1	<10	<10	<10	<10	175	6.7	<5	115	247
MW8-24	2.1	<10	<10	<100	<100	455	195	<50	265	835
MW8-29	417	NA	NA	<500	<500	991	<250	<250	748	9,550
MW8-30	991	72	<10	<2,500	<2,500	7,350	<1,250	<1,250	3,600	36,400
MW8-32.5	3,120	456	<10	<5,000	<5,000	29,800	1,850	<2,500	12,300	42,800
MW8-35	358	17	<10	<500	<500	3,680	<250	<250	1,900	10,200
MW8-40	586	105	<10	<250	<250	2,090	90	<125	1,360	10,600
MW8-42.5	7.6	<10	<10	<50	<50	145	35	<25	212	55
MW9-3	<1	NA	NA	<10	<10	5	5.1	<5	17.6	13.3

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
S-1	NA	9,900	32,000	ND	NA	ND	>220,000	>210,000	>540,000	NA	NA
S-2	NA	5,100	33,000	ND	NA	ND	120,000	94,000	264,000	NA	NA
MW1-1	NA	210	100	NA	NA	10	10	NA	18	NA	NA
MW1-10	NA	ND	ND	ND	NA	ND	14	ND	ND	NA	NA
MW1-15	NA	ND	49	ND	NA	ND	ND	ND	ND	NA	NA
MW1-20	NA	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA
MW1-25	NA	ND	ND	ND	NA	ND	ND	ND	ND	NA	NA
MW1-30	NA	270	6,300	10,000	NA	ND	330	2,200	7,700	NA	NA
MW1-35	NA	180	ND	6,800	NA	16	ND	ND	2,400	NA	NA
MW1-40	NA	ND	ND	ND	NA	ND	ND	ND	1,800	NA	NA
MW2-5	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
MW2-10	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
MW2-20	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
MW2-30	ND	24	33	NA	NA	ND	15	ND	ND	NA	NA
MW2-40	ND	ND	194	NA	NA	ND	168	113	494	NA	NA
MW3-5	ND	18	13	NA	NA	ND	ND	ND	ND	NA	NA
MW3-10	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
MW3-20	ND	ND	ND	NA	NA	ND	ND	ND	ND	NA	NA
MW3-30	ND	ND	452	NA	NA	ND	480	109	470	NA	NA
MW3-40	ND	ND	69	NA	NA	ND	ND	ND	ND	NA	NA
MW4-5	<50	<50	<50	<500	NA	<50	<50	<50	<50	NA	NA
MW4-10	<50	<50	<50	<500	NA	<50	<50	<50	<50	NA	NA
MW4-20	<1000	16,500	98,900	<10000	NA	<1000	48,700	16,600	61,000	NA	NA
MW5-2	<5	<5	21	<5	NA	<5	6	<5	13	NA	NA
MW5-5	<5	7	19	<5	NA	<5	6	<5	16	NA	NA
MW5-10	<5	<5	<5	<5	NA	<5	9	<5	<5	NA	NA
MW5-20	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA
MW6-5	10	11	24	<5	NA	17	424	32	277	NA	NA
MW6-10	18	<10	<10	<5	NA	<10	36	<10	<10	NA	NA
MW6-20	<10	154	3,510	<5	NA	<10	4,300	3,220	10,240	NA	NA
MW7-5	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA
MW7-10	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA
MW7-20	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA
MW7-30	<5	<5	<5	<5	NA	<5	34	<5	7	NA	NA
MW7-40	<5	<5	<5	<5	NA	<5	<5	<5	<5	NA	NA
MW8-3.5	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5
MW8-10	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5
MW8-15	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5
MW8-19	<5	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5
MW8-24	<50	<50	<50	<50	NA	<50	<50	<50	<50	<50	<50
MW8-29	<250	<250	<250	<250	NA	<250	2,310	2,260	9,580	<250	438
MW8-30	4,920	<1,250	<1,250	<1,250	<1,250	<1,250	34,100	14,100	52,000	<1,250	2,750
MW8-32.5	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	65,500	27,900	92,600	<2,500	5,290
MW8-35	<250	460	<250	<250	<250	<250	6,920	3,340	10,900	<250	520
MW8-40	<125	260	160	<125	<125	<125	7,250	3,510	11,600	<125	566
MW8-42.5	<25	<25	<25	<25	<25	<25	62.5	452	25	113	<25
MW9-3	<5	6.7	24.8	<5	<5	<5	<5	<5	<5	<5	<25

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
S-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW2-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW3-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW4-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW4-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW4-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW5-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW5-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW5-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW5-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW7-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW7-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW7-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW7-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW7-40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW8-3.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW8-10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW8-15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW8-19	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW8-24	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
MW8-29	1,300	<250	4,420	<250	15,500	<250	<250	<250	968	1,040	<250
MW8-30	8,700	<1,250	19,800	<1,250	80,500	<1,250	<1,250	<1,250	4,350	6,100	<1,250
MW8-32.5	18,100	<2,500	47,500	<2,500	161,000	<2,500	<2,500	<2,500	7,950	11,000	<2,500
MW8-35	1,820	<250	4,580	<250	17,300	<250	<250	<250	800	980	<250
MW8-40	1,870	<125	4,630	<125	18,400	<125	<125	<125	851	1,290	<125
MW8-42.5	<25	<25	95	<25	50	<25	<25	<25	<25	<25	<25
MW9-3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
S-1	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
S-2	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW1-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW1-10	NA	21,000	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW1-15	NA	7,900	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW1-20	NA	8,400	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW1-25	NA	430	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW1-30	NA	15,000	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW1-35	NA	85	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW1-40	NA	15,000	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW2-5	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW2-10	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW2-20	NA	97	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW2-30	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW2-40	NA	1,102	720	352	NA	NA	NA	NA	NA	NA	NA
MW3-5	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW3-10	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW3-20	NA	261	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW3-30	NA	15,100	3,000	1,340	NA	NA	NA	NA	NA	NA	NA
MW3-40	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA
MW4-5	NA	1,640	1,990	594	NA	NA	NA	NA	NA	NA	NA
MW4-10	NA	2,130	4,260	<300	NA	NA	NA	NA	NA	NA	NA
MW4-20	NA	<1,000	<10,000	12,000	NA	NA	NA	NA	NA	NA	NA
MW5-2	NA	<8,000	<50	<50	NA	NA	NA	NA	NA	NA	NA
MW5-5	NA	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA
MW5-10	NA	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA
MW5-20	NA	974	529	<50	NA	NA	NA	NA	NA	NA	NA
MW6-5	NA	5,180	3,110	900	NA	NA	NA	NA	NA	NA	NA
MW6-10	NA	2,030	804	1,230	NA	NA	NA	NA	NA	NA	NA
MW6-20	NA	<50	<50	2,440	NA	NA	NA	NA	NA	NA	NA
MW7-5	NA	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA
MW7-10	NA	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA
MW7-20	NA	117	147	<50	NA	NA	NA	NA	NA	NA	NA
MW7-30	NA	6,050	29,700	69	NA	NA	NA	NA	NA	NA	NA
MW7-40	NA	<50	<50	<30	NA	NA	NA	NA	NA	NA	NA
MW8-3.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW8-10	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW8-15	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW8-19	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW8-24	<50	<500	<500	<500	<500	<500	<50	<100	<50	NA	<300
MW8-29	<250	<2,500	<2,500	<2,500	<2,500	<2,500	<250	<500	<250	NA	<1,500
MW8-30	<1,250	<12,500	<12,500	<12,500	<12,500	<12,500	<1,250	<2,500	<1,250	NA	<7,500
MW8-32.5	<2,500	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	NA	<15,000
MW8-35	<250	<2,500	<2,500	<2,500	<2,500	<2,500	<250	<500	<250	NA	<1,500
MW8-40	<125	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250	<125	<250	<125	NA
MW8-42.5	<25	<250	<250	<250	<250	<250	<25	<50	<25	NA	<150
MW9-3	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
MW9-10	<1	NA	NA	<10	<10	<5	<5	<5	<5	<5
MW9-12.5	NA	<10	<10	NA	NA	NA	NA	NA	NA	NA
MW9-15	1.3	NA	NA	<10	<10	5	<5	<5	22.5	<5
MW9-20	<1	<10	<10	<10	<10	<5	<5	<5	7.2	<5
MW9-25	<1	<10	<10	<10	<10	15	<5	<5	60	7.6
MW9-29	<1	NA	NA	<10	<10	95	33	<5	400	35
MW9-30	NA	<10	<10	NA	NA	NA	NA	NA	NA	NA
MW9-35	<1	<10	<10	<10	<10	88	85	<5	68	<5
MW9-40	<1	<10	<10	<10	<10	26	27	<5	19	<5
MW9-45	<1	<10	<10	<10	<10	5.7	12	<5	5	<5
MW9-50	<1	<10	<10	<10	<10	<5	21.8	<5	<5	<5
MW10-18.5	5.4	<10	<10	<10	<10	2,040	92.8	<5	1,550	1,150
MW10-24.5	<10	<10	<10	<10	<10	394	41.5	<5	281	336
MW10-27	201	15	<10	<1,000	<1,000	4,310	520	<500	3,020	5,450
MW10-32	9,550	178	<10	<5,000	<5,000	20,200	4,230	<2,500	16,500	198,000
MW10-35	2,100	78	<10	<2,000	<2,000	17,800	2,560	<1,000	12,900	1,020
MW10-37	892	33	<10	<5,000	<5,000	8,350	<2,500	<2,500	1,260	<2,500
MW10-40	26.3	<10	<10	<250	<250	1,740	<125	<125	393	<125
MW12-5	<10	<10	<10	<10	<10	9.6	<5	<5	13.4	6.8
MW12-10	<10	<10	<10	<10	<10	6.8	<5	<5	7	<5
MW12-14.5	<10	<10	<10	<10	<10	7.1	<5	<5	6.6	<5
MW12-19.5	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
MW12-22	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
MW12-24.5	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
MW12-27	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
MW12-29.5	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
MW12-32	<10	<10	<10	<10	<10	10.2	<5	<5	<5	<5
MW12-32.5	<10	<10	<10	<10	<10	11.2	<5	<5	<5	<5
MW12-34.5	<10	<10	<10	146	<10	217	<5	<5	<5	<5
MW12-39.5	238	17	<10	<100	<100	453	<50	<50	67.5	<50
MW12-44.5	80	<10	<10	<250	<250	422	<125	<125	<125	<125
MW12-47	<10	<10	<10	<10	<10	60.1	200	<5	92	<5
MW14-4.5	11.2			<500	<500	<250	<250	<250	<250	<250
MW14-9.5	17.1			<250	<250	388	<125	<125	553	<125
MW14-14.5	20.4			<250	<250	<125	<125	<125	589	495
MW14-15	NA	NA	NA	<250	<250	426	<125	<125	586	450
MW14-19.5	352	15		<250	<250	445	<125	<125	550	739
MW14-24.5	846	46		<250	<250	406	<125	<125	487	286
MW14-29.5	7,600	158		<5,000	<5,000	13,600	5,530	<2,500	12,300	150,000
MW14-30	NA	NA	NA	<5,000	<5,000	11,600	5,180	<2,500	9,670	120,000
MW14-34.5	4,400	171		<1,000	<1,000	2,210	2,800	<500	11,100	93,300
MW14-39.5	63			<500	<500	3,270	298	<250	6,950	<250
MW14-40	NA	NA	NA	<500	<500	3,600	358	<250	7,910	<250
MW14-42	301			<1,000	<1,000	842	510	<500	2,330	<500
MW14-65				<10	<10	<5	<5	<5	<5	<5
MW15-24.5	<10	<10	<10	8.4	<10	5	<5	<5	17.9	<5
MW15-25	<10	<10	<10	7.8	<10	5.2	<5	<5	17.8	<5
MW15-30	<10	<10	<10	29.6	<10	142	6.1	<5	665	<5

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
MW9-10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-12.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW9-15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-29	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW9-35	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-40	<5	5.6	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-45	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW9-50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25
MW10-18.5	<5	<5	<5	<5	7.8	285	35.2	220	<5	<5	<5
MW10-24.5	<5	<5	<5	<5	2.5	98.6	21.5	101	<5	<5	<5
MW10-27	<500	<500	<500	<500	<500	4,240	2,180	10,000	<500	<500	<500
MW10-32	<2,500	35,560	2,590	<2,500	<2,500	<2,500	179,000	93,100	315,000	<2,500	15,200
MW10-35	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	69,000	20,500	63,700	<1,000	5,220
MW10-37	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	54,800	9,010	31,000	<2,500	3,060
MW10-40	<125	<125	<125	<125	54.5	4,770	321	1,290	<125	<125	<125
MW12-5	<5	5.8	20.3	<5	<5	<5	<5	<5	<5	<5	<5
MW12-10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-14.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-19.5	<5	<5	<5	<5	<5	2	<5	<5	<5	<5	<5
MW12-22	<5	<5	<5	<5	5.4	<5	<5	<5	<5	<5	<5
MW12-24.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-29.5	<5	<5	<5	<5	<5	2.9	<5	2.7	<5	<5	<5
MW12-32	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-32.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-34.5	<5	<5	<5	<5	<5	<5	<5	8.5	10	<5	<5
MW12-39.5	<50	<50	<50	<50	116	145	97	238	135	<50	<50
MW12-44.5	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
MW12-47	<5	78.9	11.8	<5	<5	52.3	<5	<5	<5	<5	<5
MW14-4.5	<250	<250	<250	<250	<250	<250	450	100	800	<250	<250
MW14-9.5	10,400	<125	<125	<125	<125	<125	2,520	142	927	<125	<125
MW14-14.5	<125	219	<125	<125	<125	<125	7,940	192	1,230	<125	<125
MW14-15	<125	180	<125	<125	<125	<125	7,230	173	1,200	<125	<125
MW14-19.5	<125	<125	1,740	<125	<125	<125	20,000	3,530	22,800	<125	450
MW14-24.5	<125	229	1,290	<125	<125	<125	31,300	8,890	53,000	<125	1,250
MW14-29.5	<2,500	5,770	131,000	<2,500	<2,500	<2,500	758,000	110,000	641,000	<2,500	12,000
MW14-30	<2,500	4,650	111,000	<2,500	<2,500	<2,500	654,000	91,600	551,000	<2,500	9,650
MW14-34.5	<500	6,020	52,300	17,500	<500	<500	384,000	59,400	316,000	<500	6,060
MW14-39.5	<250	<250	<250	<250	<250	<250	10,800	1,000	5,620	<250	<250
MW14-40	<250	<250	<250	<250	<250	<250	8,600	525	2,600	<250	<250
MW14-42	<500	<500	<500	<500	<500	<500	20,400	4,010	23,100	<500	530
MW14-65	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW15-24.5	<5	<5	<5	<5	<5	<5	<5	2.2	4.8	<5	<5
MW15-25	<5	<5	<5	<5	<5	<5	<5	3.2	5.3	<5	<5
MW15-30	<5	<5	<5	<5	5	2	<5	<5	<5	<5	<5

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
MW9-10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-12.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW9-15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-20	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-29	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW9-35	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-40	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-45	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW9-50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW10-18.5	<5	<5	11.6	<5	63.8	<5	<5	<5	<5	<5	<5
MW10-24.5	16.6	<5	7.3	<5	35.5	<5	<5	<5	<5	7.9	<5
MW10-27	<500	<500	1,910	<500	7,830	<500	<500	<500	<500	<500	<500
MW10-32	38,500	<2,500	115,000	<2,500	393,000	<2,500	<2,500	<2,500	25,000	33,800	<2,500
MW10-35	14,900	<1,000	35,900	<1,000	106,000	<1,000	<1,000	<1,000	4,450	4,230	<1,000
MW10-37	8,190	<2,500	18,100	<2,500	51,600	<2,500	<2,500	<2,500	2,590	2,500	<2,500
MW10-40	<125	<125	105	<125	304	<125	<125	<125	<125	<125	<125
MW12-5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-14.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-19.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-22	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-24.5	16.8	<5	6.1	<5	25.4	<5	<5	<5	<5	<5	<5
MW12-27	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-29.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-32	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-32.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW12-34.5	<5	<5	10.2	<5	<5	<5	<5	<5	<5	7.6	<5
MW12-39.5	3,910	<50	8,750	<50	17,700	351	287	<50	1,350	202	<50
MW12-44.5	747	<125	1,860	<125	4,050	<125	<125	<125	<125	<125	<125
MW12-47	<5	<5	8.8	<5	21.2	<5	<5	<5	<5	<5	<5
MW14-4.5	<250	<250	<250	<250	356	<250	<250	<250	<250	<250	<250
MW14-9.5	<125	<125	<125	<125	230	<125	<125	<125	<125	<125	<125
MW14-14.5	<125	<125	<125	<125	197	<125	<125	<125	<125	<125	<125
MW14-15	<125	<125	<125	<125	187	<125	<125	<125	<125	<125	<125
MW14-19.5	1,080	<125	2,360	<125	8,810	<125	<125	<125	350	489	<125
MW14-24.5	3,000	<125	7,440	<125	25,000	<125	<125	<125	1,110	1,780	<125
MW14-29.5	25,800	<2,500	51,000	<2,500	172,000	<2,500	<2,500	<2,500	6,530	11,100	<2,500
MW14-30	20,300	<2,500	41,000	<2,500	135,000	<2,500	<2,500	<2,500	5,780	9,050	<2,500
MW14-34.5	12,600	<500	26,300	<500	87,600	<500	<500	<500	3,300	5,400	<500
MW14-39.5	<250	<250	434	<250	1,450	<250	<250	<250	<250	<250	<250
MW14-40	<250	<250	<250	<250	500	<250	<250	<250	<250	<250	<250
MW14-42	1,120	<500	2,110	<500	7,420	<500	<500	<500	<500	<500	<500
MW14-65	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW15-24.5	<5	<5	<5	<5	6	<5	<5	<5	<5	<5	<5
MW15-25	<5	<5	<5	<5	8.8	<5	<5	<5	<5	<5	<5
MW15-30	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
MW9-10	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-12.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW9-15	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-20	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-25	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-29	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW9-35	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-40	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-45	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW9-50	<5	<50	<50	<50	<50	<50	<5	<10	<5	NA	<30
MW10-18.5	<5	12,400	4,550	135	<50	<50	<5	<10	<5	<100	<30
MW10-24.5	<5	3,280	<50	39	<50	<50	<5	<10	<5	<100	<30
MW10-27	<500	6,520	4,010	<5,000	<5,000	<5,000	<500	<1,000	<500	<10,000	<3,000
MW10-32	<2,500	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
MW10-35	<1,000	<10,000	<10,000	<10,000	<10,000	<10,000	<1,000	<2,000	<1,000	<20,000	<6,000
MW10-37	<2,500	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
MW10-40	<125	50,500	22,000	6,160	<1,250	<1,250	<125	<250	<125	<2,500	<750
MW12-5	<5	25	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-10	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-14.5	<5	26	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-19.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-22	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-24.5	<5	<50	<50	<50	<50	<50	<5	<10	5.6	<100	<30
MW12-27	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-29.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-32	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-32.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<500	<30
MW12-34.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW12-39.5	<50	964	1,560	680	<500	<500	<50	<100	<50	<1,000	<300
MW12-44.5	<125	2,500	2,430	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
MW12-47	<5	43	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW14-4.5	<250	4,500	4,360	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<1,500
MW14-9.5	<125	27,200	10,400	2,110	<1,250	<1,250	<125	<250	<125	<2,500	<750
MW14-14.5	<125	32,800	14,000	26,000	<1,250	<1,250	<125	<250	<125	<2,500	1320
MW14-15	<125	41,300	16,000	3,240	<1,250	<1,250	<125	<250	<125	<2,500	<750
MW14-19.5	<125	27,600	6,830	3,270	<1,250	<1,250	<125	<250	<125	<2,500	<750
MW14-24.5	<125	12,300	6,770	2,170	<1,250	<1,250	<125	<250	<125	<2,500	<750
MW14-29.5	<2,500	60,300	14,900	26,600	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
MW14-30	<2,500	68,400	14,500	26,100	<25,000	<25,000	<2,500	<5,000	<2,500	<50,000	<15,000
MW14-34.5	<500	46,300	13,000	15,400	<5,000	<5,000	<500	<1,000	<500	<10,000	<1,200
MW14-39.5	<250	6,730	<2,500	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<600
MW14-40	<250	6,680	<2,500	<2,500	<2,500	<2,500	<250	<500	<250	<5,000	<600
MW14-42	<500	38,300	<5,000	2,090	<5,000	<5,000	<500	<1,000	<500	<10,000	<1,200
MW14-65	<5	<50	<50	<50	<50	<50	<5	<10	<5		<30
MW15-24.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW15-25	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW15-30	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
MW15-35	<10	<10	<10	17.4	<10	258	32.7	<5	1,050	<5
MW15-45	<10	<10	<10	<10	6.3	310	384	<5	1,910	<5
MW15-50	<10	<10	<10	<10	<10	205	1,250	<5	1,250	<5
MW15-55	<10	<10	<10	9.9	17	270	113	<5	1,880	<5
MW16-10	<10	<10	<10	<10	<10	27.9	12.4	<5	175	8.7
MW16-25	<10	15	<10	<10	<10	36	29.3	<5	233	92
MW16-27.5	<10	<10	<10	276	<10	203	73.5	<5	840	20.7
MW16-39.5	<10	<10	<10	81.9	<250	625	380		172	<125
MW16-40	<10	<10	<10	105	<10	669	494	<5	194	<5
MW17-9.5	<10	<10	<10	9.8	<10	73.8	37.6	<5	455	16.3
MW17-24.5	<10	<10	<10	<10	<10	39.6	10	<5	111	24.6
MW17-26.8	<10	<10	<10	69	<10	1,010	185	<5	2,680	840
MW17-29.5	<10	<10	<10	79.2	<10	251	10.1	<5	54	16.1
MW17-30	NA	NA	NA	18	<10	95.6	3.5	<5	23.5	7.3
MW17-34.5	<10	19	<10	13.9	<10	221	12.4	<5	8.2	11.4
MW17-39.5	<10	<10	<10	8.8	<10	138	161	<5	49.6	<5
MW17-40	NA	NA	NA	9.5	<10	127	150	<5	49.7	<5
MW19-4.5	4,910	492	32	<2,000	<2,000	1,660	1,000	<1,000	<1,000	45,700
MW19-5	NA	NA	NA	<2,000	<2,000	1,700	1,000	<1,000	<1,000	38,600
MW19-14.5	3,990	156	<10	<10,000	<10,000	17,100	55,200	<5,000	<5,000	4,150,000
MW19-19.5	2,730	200	<10	<5,000	<5,000	<2500	3,500	<2,500	<2,500	209,000
MW19-24.5	279	<10	<10	<100	<100	58	<50	<50	<50	2,050
MW19-28	3,380	212	<10	<20,000	<20,000	<10,000	48,800	<10,000	<10,000	846,000
MW19-29.5	5,750	296	<10	<20,000	<20,000	<10,000	47,600	<10,000	<10,000	748,000
MW19-34	51	<10	<10	<100	<100	685	2,000	<50	2,220	560
MW19-38	12	<10	<10	<100	<100	994	2,060	<50	1,810	350
MW19-39	NA	NA	NA	<100	<100	1,060	2,310	<50	1,740	300
MW19-44	<10	<10	<10	<250	<250	156	206	<125	<125	<125
MW19-49.5	<10	<10	<10	<100	<100	161	237	<50	<50	<50
MW19-54.5	<10	<10	<10	<100	<100	50	258	<50	<50	<50
RR-1	NA	NA	NA	NA	NA	<100	<100	NA	NA	<100
RR-2	NA	NA	NA	NA	NA	<2,000	<2,000	NA	NA	17,000
RR-3	NA	NA	NA	NA	NA	<2,000	8,300	NA	NA	19,000,000
RR-4	NA	NA	NA	NA	NA	<800	<800	NA	NA	<800
RR-5	NA	NA	NA	NA	NA	<2,000	<2,000	NA	NA	16,000
RR-6	NA	NA	NA	NA	NA	<2,000	<2,000	NA	NA	160,000
RR-7	NA	NA	NA	NA	NA	<2,000	<2,000	NA	NA	73,000
RRBH15-1	NA	NA	NA	NA	NA	462	269	NA	NA	20,900
RRBH15-5	NA	NA	NA	NA	NA	462	10	NA	NA	109
RRBH15-10	NA	NA	NA	NA	NA	74	<5	NA	NA	5
RRBH15-20	NA	NA	NA	NA	NA	<5	<5	NA	NA	<5
RRBH16-1	NA	NA	NA	NA	NA	<50	<50	NA	NA	<50
RRBH16-5	NA	NA	NA	NA	NA	<50	<50	NA	NA	55
RRBH16-10	NA	NA	NA	NA	NA	<50	<50	NA	NA	6
RRBH16-20	NA	NA	NA	NA	NA	<50	<50	NA	NA	<50
RRBH17-1	NA	NA	NA	NA	NA	706	<250	NA	NA	36,600
RRBH17-5	NA	NA	NA	NA	NA	<1,000	<1,000	NA	NA	19,400
RRBH17-10	NA	NA	NA	NA	NA	11	<10	NA	NA	55
RRBH17-20	NA	NA	NA	NA	NA	<10	<10	NA	NA	<10

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
MW15-35	<5	19.3	11.7	<5	5	5.6	2.5	<5	<5	<5	<5
MW15-45	<5	250	165	<5	<5	7.3	<5	23	2.6	<5	<5
MW15-50	<5	23.6	12.1	<5	10.6	7.1	2.4	<5	3	<5	<5
MW15-55	<5	<5	<5	<5	5.9	8.5	<5	6.5	5	<5	<5
MW16-10	<5	<5	8.6	<5	<5	<5	<5	<5	<5	<5	<5
MW16-25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW16-27.5	<5	.5	<5	<5	<5	<5	4.4	<5	10	<5	<5
MW16-39.5		42.2	53	<125	<125	9.6	<125	<125	<125	<125	<125
MW16-40	<5	49.6	<5	<5	<5	11.5	<5	<5	<5	<5	<5
MW17-9.5	<5	5	5	<5	<5	56	271	<5	<5	<5	<5
MW17-24.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW17-26.8	<5	<5	14	<5	<5	4.2	9.8	<5	60.6	<5	<5
MW17-29.5	<5	<5	<5	<5	<5	6.5	43.4	21.3	27.2	<5	<5
MW17-30	<5	<5	<5	<5	<5	2.4	12.5	5.2	8.3	<5	760
MW17-34.5	<5	<5	<5	<5	<5	10.9	560	105	545	<5	9.5
MW17-39.5	<5	6.8	22.4	<5	<5	3.2	<5	<5	<5	<5	<5
MW17-40	<5	7.1	21.2	<5	<5	3.4	<5	<5	<5	<5	<5
MW19-4.5	<1,000	2,350	9,310	<1,000	<1,000	<1,000	12,200	5,050	38,300	<1,000	<1,000
MW19-5	<1,000	2,180	7,740	<1,000	<1,000	<1,000	9,950	4,550	33,600	<1,000	<1,000
MW19-14.5	<5,000	<5,000	210,000	15,400	<5,000	<5,000	239,000	101,000	323,000	<5,000	<5,000
MW19-19.5	<2,500	6,100	28,200	<2,500	<2,500	<2,500	28,500	17,100	41,100	<2,500	<2,500
MW19-24.5	<50	245	482	<50	<50	<50	2,600	1,050	3,360	<50	262
MW19-28	<10,000	<10,000	98,400	<10,000	<10,000	122,000	58,000	149,000	<10,000	<10,000	19,600
MW19-29.5	<10,000	<10,000	85,800	<10,000	<10,000	122,000	54,000	128,000	<10,000	<10,000	18,400
MW19-34	<50	50	53	125	<50	3,620	1,140	2,450	110	<50	305
MW19-38	<50	<50	<50	202	<50	3,680	575	1,270	<50	<50	87.5
MW19-39	<50	<50	<50	250	<50	5,310	1,050	2,330	<50	<50	256
MW19-44	<125	<125	<125	<125	<125	<125	670	137	251	<125	<125
MW19-49.5	<50	<50	<50	<50	<50	33	<50	<50	<50	<50	<50
MW19-54.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
RR-1	<100	<100	170	<500	NA	<100	250	<100	670	NA	NA
RR-2	<2,000	2,200	32,000	<10,000	NA	<2,000	210,000	16,000	115,000	NA	NA
RR-3	3,900	4,200	7,600	<10,000	NA	<2,000	9,300	<2,000	3,400	NA	NA
RR-4	<800	<800	4,100	<4,000	NA	<800	840	1,100	9,100	NA	NA
RR-5	<2,000	<2,000	2,300,000	<10,000	NA	<2,000	17,000	<2,000	6,400	NA	NA
RR-6	<2,000	<2,000	1,200,000	<10,000	NA	<2,000	14,000	5,200	28,500	NA	NA
RR-7	<2,000	<2,000	37,000	<10,000	NA	<2,000	4,300	3,600	39,000	NA	NA
RRBH15-1	<5	27	6,330	<5	NA	8	1,300	218	43,200	NA	NA
RRBH15-5	<5	<5	11	<50	NA	<5	24	<5	23	NA	NA
RRBH15-10	<5	<5	<5	<50	NA	<5	8	<5	<5	NA	NA
RRBH15-20	<5	<5	<5	<50	NA	<5	<5	<5	<5	NA	NA
RRBH16-1	<50	<50	<50	<50	NA	<50	<50	<50	<50	NA	NA
RRBH16-5	<50	61	<50	<50	NA	<50	<50	<50	<50	NA	NA
RRBH16-10	<50	<50	<50	<50	NA	<50	<50	<50	<50	NA	NA
RRBH16-20	<50	<50	471	<50	NA	<50	125	82	422	NA	NA
RRBH17-1	<250	9,280	41,800	<250	NA	<250	11,200	1,560	10,480	NA	NA
RRBH17-5	<1,000	5,630	58,200	<5,000	NA	<1,000	48,300	6,330	27,770	NA	NA
RRBH17-10	<10	21	12	<50	NA	<10	179	<10	24	NA	NA
RRBH17-20	<10	<10	<10	<50	NA	<10	<10	<10	<10	NA	NA

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE
MW15-35	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW15-45	<5	<5	<5	<5	16.3	<5	<5	<5	<5	6.6	<5
MW15-50	<5	<5	<5	<5	34.3	<5	<5	<5	<5	<5	<5
MW15-55	<5	<5	8.4	<5	54.6	<5	<5	<5	<5	<5	<5
MW16-10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW16-25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW16-27.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW16-39.5	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125	<125
MW16-40	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
MW17-9.5	<5	<5	<5	<5	5.8	<5	<5	<5	<5	<5	<5
MW17-24.5	<5	<5	<5	<5	6.6	<5	<5	<5	<5	<5	<5
MW17-26.8	<5	<5	12.9	<5	89.7	<5	<5	<5	<5	13.2	<5
MW17-29.5	<5	<5	9.9	<5	44.9	<5	<5	<5	<5	9.2	<5
MW17-30	<5	<5	<5	<5	12.3	<5	<5	<5	<5	<5	<5
MW17-34.5	15.5	<5	69.1	<5	900	<5	<5	<5	25.8	99.4	<5
MW17-39.5	<5	<5	<5	<5	11	<5	<5	<5	,5	5.4	<5
MW17-40	<5	<5	<5	<5	19.5	<5	<5	<5	<5	5	<5
MW19-4.5	2,140	<1,000	9,070	<1,000	57,300	<1,000	<1,000	<1,000	9,650	21,500	<1,000
MW19-5	2,010	<1,000	8,130	<1,000	50,500	<1,000	<1,000	<1,000	8,380	17,800	<1,000
MW19-14.5	40,100	<5,000	123,000	<5,000	391,000	<5,000	<5,000	<5,000	16,500	17,000	<5,000
MW19-19.5	8,900	<2,500	28,300	<2,500	102,000	<2,500	<2,500	<2,500	4,100	4,800	<2,500
MW19-24.5	722	<50	3,380	<50	11,300	<50	<50	<50	850	1,150	<50
MW19-28	72,600	<10,000	316,000	<10,000	<10,000	<10,000	<10,000	<10,000	19,600	28,000	<10,000
MW19-29.5	65,000	<10,000	296,000	<10,000	<10,000	<10,000	<10,000	<10,000	18,400	20,000	<10,000
MW19-34	1,350	<50	6,350	<50	<50	<50	<50	<50	292	483	<50
MW19-38	280	<50	1,450	<50	<50	<50	<50	<50	65	213	<50
MW19-39	933	<50	4,170	<50	<50	<50	<50	<50	231	431	<50
MW19-44	<125	<125	<125	<125	231	<125	<125	<125	<125	<125	<125
MW19-49.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
MW19-54.5	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
RR-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RR-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RR-3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RR-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RR-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RR-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RR-7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH15-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH15-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH15-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH15-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH16-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH16-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH16-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH16-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH17-1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH17-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH17-10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RRBH17-20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
MW15-35	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW15-45	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW15-50	<5	<50	<50	<50	<50	<50	<5	<10	<5	283	<30
MW15-55	<5	<50	<50	<50	<50	<50	<5	<10	<5	627	<30
MW16-10	<5	<50	<50	<50	<50	<50	<5	<10	<5	189	<30
MW16-25	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW16-27.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW16-39.5	<125	<1,250	<1,250	<1,250	<1,250	<1,250	<125	<250	<125	3,480	<750
MW16-40	<5	<50	<50	<50	<50	<50	<5	<10	<5	4,340	<30
MW17-9.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW17-24.5	<5	,50	<50	<50	<50	<50	<5	<10	<5	<100	<30
MW17-26.8	<5	<50	<50	<50	<50	<50	<5	<10	<5	252	<30
MW17-29.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	840	<30
MW17-30	<5	42	<50	<50	<50	<50	<5	<10	<5	1,020	<30
MW17-34.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	13,800	<30
MW17-39.5	<5	<50	<50	<50	<50	<50	<5	<10	<5	3,710	<30
MW17-40	<5	<50	<50	<50	<50	<50	<5	<10	<5	3,560	<30
MW19-4.5	<1,000	38,400	10,500	<10,000	<10,000	<10,000	<1,000	<2,000	<1,000	42,000	<6,000
MW19-5	<1,000	26,400	10,800	<10,000	<10,000	<10,000	<1,000	<2,000	<1,000	36,000	<6,000
MW19-14.5	<5,000	<50,000	<50,000	<50,000	<50,000	<50,000	<5,000	<10,000	<5,000	13,000	<30,000
MW19-19.5	<2,500	<25,000	<25,000	<5,000	<5,000	<5,000	<2,500	<5,000	<2,500	<50,000	<15,000
MW19-24.5	<50	2,700	5,330	<500	<500	<500	<50	<100	<50	2,700	<300
MW19-28	<10,000	<100,000	<100,000	<100,000	<100,000	<100,000	<10,000	<20,000	<10,000	<200,000	<60,000
MW19-29.5	<10,000	<100,000	<100,000	<100,000	<100,000	<100,000	<10,000	<20,000	<10,000	<200,000	<60,000
MW19-34	<50	15,200	7,510	<500	<500	<500	<50	<100	<50	<1000	<300
MW19-38	<50	17,000	7,830	<500	<500	<500	<50	<100	<50	1,600	<300
MW19-39	<50	17,600	8,490	<500	<500	<500	<50	<100	<50	1,830	<300
MW19-44	<125	<1,250	<1,250	<1,250	<1,250	<1,250	<125	<250	<125	<2,500	<750
MW19-49.5	<50	1,020	<500	<500	<500	<500	<50	<100	<50	<1,000	<300
MW19-54.5	<50	<500	<500	<500	<500	<500	<50	<100	<50	<1,000	<300
RR-1	NA	2,800	<500	<300	NA	NA	NA	NA	NA	NA	NA
RR-2	NA	<10,000	<10,000	<6,000	NA	NA	NA	NA	NA	NA	NA
RR-3	NA	<10,000	<10,000	<6,000	NA	NA	NA	NA	NA	NA	NA
RR-4	NA	<4,000	15,000	<2,400	NA	NA	NA	NA	NA	NA	NA
RR-5	NA	<10,000	<10,000	<6,000	NA	NA	NA	NA	NA	NA	NA
RR-6	NA	3,100,000	38,000	7,200	NA	NA	NA	NA	NA	NA	NA
RR-7	NA	<10,000	<10,000	<6,000	NA	NA	NA	NA	NA	NA	NA
RRBH15-1	NA	4,480	193	198	NA	NA	NA	NA	NA	NA	NA
RRBH15-5	NA	9,380	1,590	<30	NA	NA	NA	NA	NA	NA	NA
RRBH15-10	NA	67	<50	<30	NA	NA	NA	NA	NA	NA	NA
RRBH15-20	NA	281	<50	<30	NA	NA	NA	NA	NA	NA	NA
RRBH16-1	NA	10,100	23,400	<30	NA	NA	NA	NA	NA	NA	NA
RRBH16-5	NA	2,180	52,000	<300	NA	NA	NA	NA	NA	NA	NA
RRBH16-10	NA	<500	11,600	<300	NA	NA	NA	NA	NA	NA	NA
RRBH16-20	NA	<500	<500	<300	NA	NA	NA	NA	NA	NA	NA
RRBH17-1	NA	39,700	12,200	2,050	NA	NA	NA	NA	NA	NA	NA
RRBH17-5	NA	25,200	35,200	11,600	NA	NA	NA	NA	NA	NA	NA
RRBH17-10	NA	15,400	60,300	3,020	NA	NA	NA	NA	NA	NA	NA
RRBH17-20	NA	1,050	2,400	399	NA	NA	NA	NA	NA	NA	NA

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	TPH-g * (C ₄ -C ₁₂)	TPH-d * (C ₁₃ -C ₂₃)	TPH-m * (C ₂₄ -C ₄₀)	Vinyl Chloride	Chloro- ethane	1,1 DCA	1,1 DCE	trans-1,2- DCE	cis-1,2 DCE	1,1,1 TCA
1SPA	<10	<10	<10	<5	<5	15	<5	<5	11	21
1SPB	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5
2SPA	258	10	<10	<50	<50	<50	<50	<50	61	940
2SPB	12,670	1,750	<100	<50	<50	61	<50	<50	429	1,430
3SPA	5,490	125	<10	<25	<25	742	182	<25	1,440	18,000
3SPB	1,313	<10	<10	<5	<5	56	<5	<5	60	108
4SPA	NA	NA	NA	<50	<50	485	136	<50	1,410	4,920
4SPB	NA	NA	NA	<5	<5	<5	<5	<5	<5	<5
18SPA	1,291	128	<10	NA	NA	NA	NA	NA	NA	NA
19SPA	7,390	212	<20	<25	<25	<25	<25	<25	<25	52
20SPB	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5
21SPA	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5
22SPA	<10	<10	<10	<5	<5	<5	<5	<5	<5	<5
22SPB	<10	<10	<10	<50	<50	<50	<50	<50	<50	<50
23SPA	1.1	<10	<10	<5	<5	<5	<5	<5	<5	<5
23SPB	6	2,670	<10	<25	<25	219	<25	<25	5,730	13,500
17A	6	<10	<50	<250	<250	<5	<250	<250	325	<5
17B	1,270	179	<50	<250	<250	<5	<250	<250	300	<5
17C	<0.5	<10	<50	<12.5	<12.5	55	<12.5	<12.5	251	16
24A	5.6	33	<50	<5	<5	<5	<5	<5	<5	<5
24B	11,300	1,180	<50	<2,500	<2,500	3,310	<2,500	<2,500	5,870	6,910
24C	6,460	292	<50	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000
25A	2	47	<50	<50	<50	<50	<50	<50	<50	<50
25B	6,050	165	<50	<500	<500	<500	<500	<500	<500	<500
25C	1.2	120	<50	<250	<250	<250	<250	<250	<250	<250
29A	<0.5	96	<50	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
29B	15,900	95	<50	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
30A	<0.5	<10	<50	<5	<5	<5	<5	<5	<5	<5
30B	<0.5	20	<50	<5	<5	<5	<5	<5	<5	<5
31A	<0.5	21	<50	<5	<5	<5	<5	<5	<5	<5
31B	<0.5	55	<50	<5	<5	<5	<5	<5	<5	<5
G1	14,000	647	<50	<5,000	<5,000	<5,000	<5,000	<5,000	38,000	43,200
G2	2	<10	<50	<10	<10	41	<10	<10	11	<10
G3	11,910	146	<50	<500	<500	<500	<500	<500	<500	<500
G4	1,120	121	<50	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250	<1,250
G5	5,790	431	<50	<6,250	<6,250	<6,250	<6,250	<6,250	<6,250	108,000
G6	17,200	456	<50	<10,000	<10,000	17,800	<10,000	<10,000	<10,000	540,000
G7	11,400	571	<50	<12,500	<12,500	<12,500	<12,500	<12,500	<12,500	320,000
G8	0.63	<10	<50	<50	<50	<50	<50	<50	<50	<50
G9	<0.5	25	<50	<5	<5	<5	<5	<5	<5	<5
G10	1,360	302	<50	<1000	<1000	<1000	<1000	<1000	<1000	<1000
G11	0.7	21	<50	<12.5	<12.5	74	<12.5	<12.5	79	<12.5
G12	<0.5	64	<50	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
G13	<0.5	33	<50	<5	<5	<5	<5	<5	<5	<5

* All TPH values listed in mg/kg (ppm)

NA = Analytical Data Not Reported or Available

ND = Not Detected, detection limit not provided

DCB=dichlorobenzene; DCA=dichloroethane; DCE=dichloroethene; MEK=methyl ethyl ketone or 2-Butanone; MIBK=methyl isobutyl ketone or 4-Methyl-2-Pentanone; MTBE=Methyl tert-butyl ether; PCE=tetrachloroethene; TCA=trichloroethane; TCE=trichloroethene; TMB=trimethylbenzene.

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,2 DCA	TCE	PCE	Methylene Chloride	Chloro benzene	Benzene	Toluene	Ethyl benzene	Xylene	Styrene	Iso-propyl benzene
1SPA	<5	9	<5	<15	<5	<5	35	<5	<5	<5	<5
1SPB	<5	<5	<5	<15	<5	<5	15	<5	<5	<5	<5
2SPA	<50	1,200	59	<150	<50	<50	5,140	1,510	5,850	<50	201
2SPB	<50	2,600	887	<150	<50	<50	12,800	7,840	53,600	<50	2,050
3SPA	<25	20,600	547	<75	<25	<25	291,000	93,600	442,000	<25	9,490
3SPB	<5	23	<5	<15	<5	<5	12,400	29,700	135,000	<5	4,230
4SPA	<50	7,790	1,570	<150	<50	<50	280,000	51,500	167,000	<50	6,680
4SPB	<5	<5	<5	<15	<5	<5	<5	55	356	<5	<5
18SPA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
19SPA	<25	44	631	<25	66	<25	6,980	823	8,250	<25	<25
20SPB	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5
21SPA	<5	<5	<5	<15	<5	<5	<5	<5	12	<5	<5
22SPA	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5
22SPB	<50	<50	<50	<150	<50	<50	175	711	2,990	<50	<50
23SPA	<5	<5	<5	<15	<5	<5	<5	<5	<5	<5	<5
23SPB	<25	29,000	522	<25	112	<25	176,000	33,500	145,000	<25	928
17A	<250	<250	<250	<500	<250	<250	720	<250	265	<250	<5
17B	<250	<250	<250	<500	<250	<250	4,260	1,400	5,200	<250	<5
17C	<12.5	<12.5	<12.5	<25	<12.5	<12.5	57	22	117	<12.5	<5
24A	<5	<5	<5	<5	<5	<5	500	130	460	<5	<5
24B	<2,500	<2,500	<2,500	<5,000	<2,500	<2,500	144,000	24,100	76,900	<2,500	2,800
24C	<5,000	<5,000	<5,000	<10,000	<5,000	<5,000	115,000	41,600	177,000	<5,000	6,100
25A	<50	<50	<50	<100	<50	<50	416	130	390	<50	<5
25B	<500	<500	<500	<1,000	<500	<500	6,420	1,160	4,440	<500	329
25C	<250	<250	<250	<500	<250	<250	168	<250	<250	<250	<250
29A	<12.5	<12.5	<12.5	<25	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5
29B	<2,500	<2,500	<2,500	<5,000	<2,500	<2,500	5,650	4,850	21,600	<2,500	4,150
30A	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
30B	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
31A	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
31B	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
G1	<5,000	44,200	<5,000	<10,000	<5,000	<5,000	475,000	105,000	474,000	<5,000	15,200
G2	<10	<10	<10	<20	<10	<10	19	<10	<10	<10	<10
G3	<500	525	950	<1000	<500	<500	13,800	5,500	30,100	<500	1,430
G4	<1,250	<1,250	2,870	<2,500	<1,250	<1,250	3,720	5,100	33,900	<1,250	1,150
G5	<6,250	11,000	85,500	<12,500	<6,250	<6,250	613,000	120,000	662,000	<6,250	14,000
G6	<10,000	<10,000	411,000	<20,000	<10,000	<10,000	1,310,000	145,000	909,000	<10,000	19,200
G7	<12,500	<12,500	240,000	<25,000	<12,500	<12,500	2,240,000	260,000	1,250,000	<12,500	24,000
G8	<50	<50	<50	<100	<50	<50	<50	<50	<50	<50	<50
G9	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5
G10	<1000	<1000	<1000	<2000	<1000	<1000	2,200	2,500	13,700	<1000	<1000
G11	<12.5	<12.5	<12.5	<25	<12.5	<12.5	9	<12.5	7	<12.5	<12.5
G12	<2,500	<2,500	<2,500	<5,00	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
G13	<5	<5	<5	<10	<5	<5	<5	<5	<5	<5	<5

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TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	<i>n</i> -Propyl benzene	4-Chloro toluene	1,3,5-TMB	ter-Butyl benzene	1,2,4-TMB	sec-Butyl benzene	<i>p</i> -Isopropyl toluene	1,2-DCB	<i>n</i> -Butyl benzene	NAphthalene	DIPE	
1SPA	<5	<5	<5	<5	5	<5	<5	<5	<5	<5	NA	
1SPB	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	
2SPA	500	<50	1,380	<50	2,720	79	<50	<50	360	199	NA	
2SPB	6,200	<50	23,200	<50	59,900	486	<50	<50	1,820	402	NA	
3SPA	22,400	<25	56,500	<25	219,000	1,100	<25	<25	588	8,300	NA	
3SPB	3,780	<5	6,950	<5	20,000	<5	<5	<5	2,280	1,480	NA	
4SPA	16,100	<50	35,000	<50	152,000	1,630	<50	<50	2,660	242	NA	
4SPB	5	<5	16	<5	34	<5	<5	<5	6	12	NA	
18SPA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
19SPA	738	<25	2,490	<25	7,530	58	<25	<25	390	424	NA	
20SPB	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	
21SPA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	
22SPA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	
22SPB	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	NA	
23SPA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	
23SPB	1,360	<25	13,300	<25	39,400	<25	<25	<25	179	<25	496	NA
17A	<5	<250	<5	<250	<5	<250	<250	<250	<250	<250	<250	NA
17B	<5	<250	2,280	<250	4,080	<250	<250	<250	<250	<250	<250	NA
17C	145	<12.5	44	<12.5	156	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	NA
24A	<5	<5	145	<5	269	<5	<5	<5	<5	<5	<5	NA
24B	6,600	<2,500	21,900	<2,500	63,900	<2,500	2,960	<2,500	5,960	<2,500	NA	
24C	15,500	<5,000	43,600	<5,000	152,000	<5,000	<5,000	<5,000	8,000	5,000	NA	
25A	<5	<50	232	<50	348	<50	<50	<50	<50	<50	<50	NA
25B	875	<500	2,960	<500	9,050	600	<500	<500	2,190	1,930	NA	
25C	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	NA
29A	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	NA
29B	9,900	<2,500	13,100	<2,500	103,000	<5	3,300	<2,500	6,750	4,300	NA	
30A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
30B	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
31A	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
31B	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	<5	NA
G1	34,400	<5,000	87,000	<5,000	282,000	<5,000	5,000	31,600	12,200	11,000	NA	
G2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
G3	3,880	<500	9,350	<500	31,300	<500	1,650	<500	3,050	1,250	NA	
G4	16,900	<1,250	7,100	<1,250	26,200	<1,250	<1,250	<1,250	1,850	2,700	NA	
G5	35,000	<6,250	80,500	<6,250	283,000	<6,250	<6,250	<6,250	7,750	9,250	NA	
G6	46,200	<10,000	119,000	<10,000	500,000	<10,000	7,600	<10,000	6,400	19,200	NA	
G7	51,000	<12,500	103,000	<12,500	356,000	<12,500	<12,500	<12,500	<12,500	<12,500	14,000	NA
G8	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	NA
G9	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA
G10	12,000	<1000	5,560	<1000	22,600	<1000	<1000	<1000	3,270	<1000	NA	
G11	<12.5	<12.5	<12.5	<12.5	5	<12.5	<12.5	<12.5	<12.5	<12.5	<12.5	NA
G12	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500	NA
G13	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA

* All TPH values listed in mg/kg (ppm)

NA = Analytical Data Not Reported or Available

ND = Not Detected, detection limit not provided

DCB=dichlorobenzene; DCA=dichloroethane; DCE=dichloroethene; MEK=methyl ethyl ketone or 2-Butanone; MIBK=methyl isobutyl ketone or 4-Methyl-2-Pentanone; MTBE=Methyl tert-butyl ether; PCE=tetrachloroethene; TCA=trichloroethane; TCE=trichloroethene; TMB=trimethylbenzene.

TABLE 1. REMEDIAL INVESTIGATIONS - SITE CHARACTERIZATION - SOIL, ANGELES CHEMICAL CO.

Analytical Results: All values listed in µg/kg (ppb)

Boring No.	1,1,2 TCA	Acetone	MEK	MIBK	2-Hexanone	Vinyl Acetate	1,2 Dibromo-3-Chloropropane	2-Chloroethyl vinyl ether	MTBE	1,4-Dioxane	T-Butyl Alcohol
1SPA	<5	6,140	579	61	<50	NA	<10	NA	NA	NA	NA
1SPB	<5	97	<50	<50	<50	NA	<10	NA	NA	NA	NA
2SPA	<50	7,640	730	<500	<500	NA	<100	NA	NA	NA	NA
2SPB	<50	4,720	<50	<50	<50	NA	<100	NA	NA	NA	NA
3SPA	<25	13,400	1,760	<250	<250	NA	<50	NA	NA	NA	NA
3SPB	<5	165	<50	<50	<50	NA	<10	NA	NA	NA	NA
4SPA	<50	23,500	2,300	<50	<50	NA	<100	NA	NA	NA	NA
4SPB	<5	494	<50	<50	<50	NA	<10	NA	NA	NA	NA
18SPA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
19SPA	<25	50,300	29,700	1,130	<250	NA	<50	NA	NA	NA	NA
20SPB	<5	1,610	158	<50	<50	NA	<10	NA	NA	NA	NA
21SPA	<5	1,350	285	1,310	<50	NA	<10	NA	NA	NA	NA
22SPA	<5	3,980	92	382	<50	NA	<10	NA	NA	NA	NA
22SPB	<50	<50	<50	<50	<50	NA	<100	NA	NA	NA	NA
23SPA	<5	29,900	<50	<50	<50	NA	<10	NA	NA	NA	NA
23SPB	<25	13,500	2,400	<250	<250	NA	<50	NA	NA	NA	NA
17A	<250	76,600	24,300	8,050	<2,500	<2,500	<250	<250	<250	NA	NA
17B	<250	4,130	1,500	<2,500	<2,500	<2,500	<250	<250	<250	NA	NA
17C	<12.5	31	<125	<125	<125	<125	<12.5	<12.5	<12.5	NA	NA
24A	<5	2,650	<50	<50	<50	<50	<5	<5	<5	NA	NA
24B	<2,500	118,000	13,000	<25,000	<25,000	<25,000	<2,500	<2,500	<2,500	NA	NA
24C	<5,000	<50,000	<50,000	<50,000	<50,000	<50,000	<5,000	<5,000	<5,000	NA	NA
25A	<50	4,580	5,770	<500	<500	<500	<50	<50	<50	NA	NA
25B	<500	89,800	5,780	<50	<50	<50	<500	<500	<500	NA	NA
25C	<250	4,030	2,610	<2,500	<2,500	<2,500	<250	<250	<250	NA	NA
29A	<12.5	147	<125	<125	<125	<125	<12.5	<12.5	<12.5	NA	NA
29B	<2,500	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<2,500	<2,500	NA	NA
30A	<5	34	<50	<50	<50	<50	<5	<5	<5	NA	NA
30B	<5	<50	<50	<50	<50	<50	<5	<5	<5	NA	NA
31A	<5	<50	<50	<50	<50	<50	<5	<5	<5	NA	NA
31B	<5	78	<50	55	<50	<50	<5	<5	<5	NA	NA
G1	<5,000	<50,000	<50,000	<50,000	<50,000	<50,000	<5,000	<5,000	<5,000	NA	NA
G2	<10	105	<100	<100	<100	<100	<10	<10	<10	NA	NA
G3	<500	<5,000	<5,000	<5,000	<5,000	<5,000	<500	<500	<500	NA	NA
G4	<1,250	17,300	<12,500	<12,500	<12,500	<12,500	<1,250	<1,250	<1,250	NA	NA
G5	<6,250	<62,500	<62,500	<62,500	<62,500	<62,500	<6,250	<6,250	<6,250	NA	NA
G6	<10,000	48,000	<100,000	<100,000	<100,000	<100,000	<10,000	<10,000	<10,000	NA	NA
G7	<12,500	<125,000	<125,000	<125,000	<125,000	<125,000	<12,500	<12,500	<12,500	NA	NA
G8	<50	<500	<500	<500	<500	<500	<50	<50	<50	NA	NA
G9	<5	<50	<50	<50	<50	<50	<5	<5	<5	NA	NA
G10	<1000	<10,000	<10,000	<10,000	<10,000	<10,000	<1000	<1000	<1000	NA	NA
G11	<12.5	776	52	<125	<125	<125	<12.5	<12.5	<12.5	NA	NA
G12	<2,500	<25,000	<25,000	<25,000	<25,000	<25,000	<2,500	<2,500	<2,500	NA	NA
G13	<5	<10	<10	325	<10	<10	<5	<5	<5	NA	NA

* All TPH values listed in mg/kg (ppm)

NA = Analytical Data Not Reported or Available

ND = Not Detected, detection limit not provided

DCB=dichlorobenzene; DCA=dichloroethane; DCE=dichloroethene; MEK=methyl ethyl ketone or 2-Butanone; MIBK=methyl isobutyl ketone or 4-Methyl-2-Pentanone; MTBE=Methyl tert-butyl ether; PCE=tetrachloroethene; TCA=trichloroethane; TCE=trichloroethene; TMB=trimethylbenzene.

TABLE 2

ANALYTICAL DATA FOR GROUNDWATER SAMPLES FROM HISTORIC QUARTERLY GROUNDWATER MONITORING ACTIVITIES

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ¹	MW-2 ¹	MW-3 ¹	MW-4	MW-6	MW-7 SM	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
Depth to Water (feet)	Feb-94	30.05	28.8	29.7	23.35	24.85	24.53							
DTW	Nov-00	35.62	35.28	36.42	26.2	28.52	28.19							
	Oct-01	37.41	37.91	39.19	26.35	NA	28.7							
	Nov-01	NA	NA	NA	26.36	28.85	NA							
	Feb-02	36.2	36.39	37.39	26.44	30.32	29.21							
	Jun-02	37.92	38.75	39.19	26.46	NA	30.07	30.91	30.98					
	Oct-02	42.45	43.66	44.66	26.48	30.28	34.11	32.68	34.7					
	Dec-02	NA	43.19	44.22	26.28	FP only	34.03	33.62	34.67	32.63	32.71	33.26	41.65	43.06
	Mar-03	NA	41.07	41.35	26.36	FP only	33.18	32.81	33.22	32.44	32.49	33.07	39.77	40.95
	Jun-03	NA	39.98	39.95	26.35	FP only	30.44	30.85	31.1	30.41	30.15	31.05	37.85	39.2
	Sep-03	NA	NA	NA	26.41	FP only	NA	32.34	34.29	31.68	31.84	33.26	42.16	43.79
	Dec-03	NA	NA	NA	26.39	FP only	NA	34.55	36.96	33.71	33.73	34.3	45.12	46.72
	Mar-04	NA	NA	NA	26.41	FP only	NA	35.2	38.19	34.85	34.36	35.02	45.98	47.41
	Jun-04	NA	NA	NA	26.4	FP only	NA	35.42	39.15	35.08	35.38	35.2	46.81	48.31
	Sep-04	NA	NA	NA	26.42	FP only	NA	36.18	41.05	36.53	35.92	35.82	49.27	51.06
	Dec-04	NA	NA	NA	26.47	29.8	NA	36.02	41.69	35.63	36.26	36.32	51.18	52.71
	Mar-05	NA	NA	NA	26.43	29.9	NA	34	37.82	33.41	34.66	33.67	46.36	46.5
	Jun-05	NA	NA	NA	Dry	29.9	NA	33.89	35.26	33.49	34.12	33.91	41.48	41.27
	Sep-05	NA	NA	NA	Dry	29.91	NA	33.73	45.85	33.46	33.75	34.06	39.3	39.43
	Dec-05	NA	NA	NA	26.59	29.9	NA	33.26	33.56	33	32.71	33.28	40.33	40.72
	Mar-06	NA	NA	NA	26.5	29.89	NA	31.39	32.8	31.03	31.55	31.67	39.47	39.76
	Jun-06	NA	NA	NA	NA	NA	NA	30.03	34.21	29.87	29.61	30.49	37.94	38.62
	Sep-06	NA	NA	NA	26.51	29.99	NA	30.66	31.44	30.6	29.73	31.31	38.5	38.89
VOCs														
Acetone	Oct-01	<1,250	<250	<625	NS-NW	Table 2	1,190							
	Feb-02	<625	<62.5	3,150	NS-FP	NS-FP	746							
	Jun-02	<1,250	<2,500	<625	NS-FP	NS-FP	<125	NS-FP	<500					
	Oct-02	<2,500	<250	<250	NS-FP	NS-FP	<1,250	NS-FP	<125					
	Dec-02	NA	<1,250	<1,250	NS-FP	NS-FP	<625	NS-FP	<125	29,900	662	<125	<25	<625
	Mar-03	NA	<5,000	<2,500	NS-FP	NS-FP	<625	NS-FP	<125	25,600	6,760	<250	<25	<625
	Jun-03	NA	<500	<1,000	NS-FP	NS-FP	<125	NS-FP	<50	46,400	13,600	<125	<25	<25
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<50	73,000	6,950	<12.5	<5	<5
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	19,200	2,240	<12.5	<5	<10
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<50	FP-2A	33,000	<12.5	<5	<5
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	888	<10	<5	<5
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	566	<10	<5	<5
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<500	<5	<5	<10
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<12.5	NS-FP	151,000	<12.5	<5	<5
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<1,000	8,950	<5	<5	<5
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	1,300	160	2,290	1,130	<5	<5	<5
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<50	<50	<1,250	<500	<5	<5	42
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<1000	<100	<1000	<1000	<5	<5	<5
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<500	<5	<5	<10
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<1,250	<5	<5	<10
		NA = Not Analyzed. ¹ = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
Benzene	Feb-94	194	<100	63	111	795	46							
	Nov-00	<2,500	61	73	NS-FP	NS-FP	65							
	Oct-01	125	105	110	NS-NW	Table 2	55							
	Feb-02	231	204	108	NS-FP	NS-FP	63.2							
	Jun-02	300	222	125	NS-FP	NS-FP	<5	NS-FP	90.8					
	Oct-02	245	177	99.2	NS-FP	NS-FP	121	NS-FP	893					
	Dec-02	NA	180	137	NS-FP	NS-FP	<25	NS-FP	85.2	<500	431	19.5	1	<25
	Mar-03	NA	172	127	NS-FP	NS-FP	62.6	NS-FP	54	302	974	13.3	<1	<25
	Jun-03	NA	<100	<200	NS-FP	NS-FP	61	NS-FP	64.4	250	520	<5	<1	<1
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	75	340	775	5.5	<1	5.5
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	2.1	292	768	9.1	<1	14.6
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	29.3	FP-2A	935	7.5	<1	4.5
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	26.8	NS-FP	715	2.2	<1	1.9
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	23.9	NS-FP	709	0.6	<1	3.2
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	17	NS-FP	1,040	<1	<1	<2
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	254	28	NS-FP	423	<2.5	<1	1.1
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	268	30.4	<200	449	<1	<1	4.1
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	428	41.7	<250	611	<1	<1	53.3
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	286	36.4	<250	524	<1	<1	<2
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	244	44.2	<200	354	<1	<1	<1
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	110	54.7	76	401	<1	<1	4.3
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	68.8	51.3	61.5	570	<1	<1	5.7
2-Butanone (MEK)	Feb-94	NA	NA	NA	NA	NA	NA							
	Nov-00	3,100	<10,000	<10,000	NS-FP	NS-FP	1,400							
	Oct-01	<1,250	<250	500	NS-NW	Table 2	980							
	Feb-02	<625	<62.5	<500	NS-FP	NS-FP	<50							
	Jun-02	<1,250	<2,500	<625	NS-FP	NS-FP	<125	NS-FP	<500					
	Oct-02	<2,500	<250	<250	NS-FP	NS-FP	<1,250	NS-FP	<125					
	Dec-02	NA	<1,250	<1,250	NS-FP	NS-FP	<625	NS-FP	<125	15,300	1,160	<125	<25	<625
	Mar-03	NA	<5,000	<2,500	NS-FP	NS-FP	<625	NS-FP	<125	21,100	15,600	<250	<25	<625
	Jun-03	NA	<500	<1,000	NS-FP	NS-FP	<125	NS-FP	<50	20,200	5,860	<125	<25	<25
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<50	58,000	5,580	<12.5	<5	<5
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	4,080	<1,000	<12.5	<5	<10
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<50	FP-2A	13,600	<12.5	<5	<5
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<250	<10	<5	<5
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<125	<10	<5	<5
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<500	<5	<5	<10
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<12.5	NS-FP	18,000	<12.5	<5	<5
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<1,000	<500	<5	<5	<5
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<50	<1,250	<500	<5	<5	<10
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<50	<50	<1,250	<500	<5	<5	<10
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<1000	<100	<1000	<1000	<5	<5	<5
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<500	<5	<5	<10
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<1,250	<5	<5	<10
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
Chloroethane	Feb-02	<125	119	<100	NS-FP	NS-FP	17							
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100					
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	248	NS-FP	<25	<1,000	989	<50	<5	<125
	Jun-03	NA	4,500	11,500	NS-FP	NS-FP	311	NS-FP	<20	5,000	760	<10	<2	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	940	1,700	<5	<2	<2
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	626	1,550	<5	<2	<4
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	4,670	<5	<2	<2
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	3,960	<4	<2	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	3,080	<4	<2	<2
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	3,400	<2	<2	<4
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	143	6.8	NS-FP	14,410	<5	<2.5	<2
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	48	<20	<400	1,390	7.7	<2	<2
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<20	1040	2,700	18.8	<2	<4
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	111	<20	668	2,810	<2	<2	<4
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	672J	1,350	<2	<2	<2
	Jun-06		NA	NA	NS-NW	NS-NW	NA	<40	<10	124J	1,400	<2	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<10	112J	4,500	<2	<2	<4
1,1-Dichloroethane (1,1-DCA)	Feb-94	649	1,130	85	1410	2,260	2,130							
	Nov-00	17,000	1,800	800	NS-FP	NS-FP	2,800							
	Oct-01	8,190	1,500	1,030	NS-NW	Table 2	2,670							
	Feb-02	20,600	2,310	1,350	NS-FP	NS-FP	5,490							
	Jun-02	18,900	2,700	1,340	NS-FP	NS-FP	4,150	NS-FP	1,210					
	Oct-02	10,400	2,550	1,130	NS-FP	NS-FP	5,680	NS-FP	1,390					
	Dec-02	NA	1,920	1,190	NS-FP	NS-FP	3,530	NS-FP	1,190	42,400	19,400	3,930	17.3	171
	Mar-03	NA	2,180	1,710	NS-FP	NS-FP	3,750	NS-FP	1,020	41,900	48,800	1,600	6.4	150
	Jun-03	NA	1,140	1,020	NS-FP	NS-FP	3,470	NS-FP	1,480	51,700	37,800	354	11.5	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	1,950	47,400	43,000	505	<2	101
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	50	53,500	49,200	735	2.3	219
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	965	FP-2A	52,700	485	2.5	110
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	910	NS-FP	55,000	300	8.8	45.9
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	628	NS-FP	29,400	160	2.8	151
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	496	NS-FP	85,300	156	17.4	101
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	22,300	1,230	NS-FP	34,800	191	15.5	63.6
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	23,000	1,640	44,000	27,900	49.1	11.5	181
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	45,000	2,570	46,600	45,200	63.4	8.9	151
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	33,000	2,430	33,100	34,100	20.5	5.5	77.2
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	25,700	2,130	26,000	41,300	1.5J	4.9J	7.9
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	3,400	1,230	12,800*	49,900*	2.7	2.2	137
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	3,360*	1,470	12,400*	34,100	2	3.8	190
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
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Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
1,2-Dichloroethane	Feb-94	<100	<100	<50	<100	1140	31							
	Nov-00	<2,500	<500	<500	NS-FP	NS-FP	<500							
	Oct-01	<250	<50	<125	NS-NW	Table 2	<25							
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	43.4							
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100					
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	11.5	<1,000	228	<50	<5	<125
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	<400	<400	<10	<2	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	103	<5	<2	<2
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	<400	<400	<5	<2	9.2
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	130	<5	<2	5
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	4.6	NS-FP	45	<4	<2	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<50	<4	<2	6
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<200	<2	<2	<4
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<5	NS-FP	<200	<5	<2	<2
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<400	<200	<2	<2	6.4
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<20	<500	<200	<2	<2	3.9
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<20	<20	<500	<200	<2	<2	<2
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	<400	<400	<2	<2	<2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<200	<2	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<500	<2	<2	<4
1,1-Dichloroethene	Feb-94	2,210	2,460	2,800	806	1,240	151							
(1,1-DCE)	Nov-00	3,000	<500	2,900	NS-FP	NS-FP	350							
	Oct-01	1,200	1,120	4,090	NS-NW	Table 2	355							
	Feb-02	4,050	1,480	3,900	NS-FP	NS-FP	778							
	Jun-02	4,900	2,090	2,690	NS-FP	NS-FP	423	NS-FP	1,540					
	Oct-02	3,800	2,100	176	NS-FP	NS-FP	547	NS-FP	1,620					
	Dec-02	NA	2,230	196	NS-FP	NS-FP	538	NS-FP	1,480	2,640	3,460	154	38.5	142
	Mar-03	NA	2,490	1,410	NS-FP	NS-FP	213	NS-FP	1,100	2,550	2,940	16.5	16.8	125
	Jun-03	NA	1,490	2,370	NS-FP	NS-FP	364	NS-FP	1,290	3,370	1,480	29.2	44.2	29.6
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	1,620	1,760	1,050	14.5	27.2	274
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	43.5	2,750	1,810	7.3	10.8	675
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	1,260	FP-2A	520	7.3	6.7	264
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	1,100	NS-FP	435	4.5	30.7	96.9
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	909	NS-FP	434	4.5	13.9	346
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	731	NS-FP	360	1.8	22.7	185
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	1,690	1,240	NS-FP	339	5.7	34.9	140
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	12,580	1,260	2,750	418	<2	34.9	396
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	1,960	2,200	1,530	911	<2	46.7	452
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	1,100	2,000	1,170	800	<2	49.8	262
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	490J	2,090*	524J	956J	<2	65.8	46.9
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	118	1,240	364	417J	<2	2.2J	404
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	210	1,460	134J	248J	<2	4.6	566*
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65	
cis 1,2-Dichloroethene	Feb-94	NA	NA	NA	NA	NA	NA								
(cis 1,2-DCE)	Nov-00	20,000	9,500	5,700	NS-FP	NS-FP	210								
	Oct-01	10,300	9,150	7,000	NS-NW	Table 2	194								
	Feb-02	29,100	11,100	7,960	NS-FP	NS-FP	268								
	Jun-02	31,100	14,800	6,860	NS-FP	NS-FP	238	NS-FP	612						
	Oct-02	20,700	10,400	212	NS-FP	NS-FP	311	NS-FP	736						
	Dec-02	NA	11,800	595	NS-FP	NS-FP	268	NS-FP	630	23,300	6,700	180	46.5	664	
	Mar-03	NA	11,300	3,090	NS-FP	NS-FP	225	NS-FP	483	20,900	10,100	18.6	17.6	363	
	Jun-03	NA	2,270	5,220	NS-FP	NS-FP	214	NS-FP	552	24,600	8,740	24.8	40	5.8	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	648	9,290	6,950	8	25.2	49	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	21.3	17,200	1,830	5.1	10.8	113	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	391	FP-2A	5,650	3.8	11.2	69.8	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	370	NS-FP	4,150	<4	35	36.9	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	327	NS-FP	3,730	1.6	16.7	110	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	315	NS-FP	13,600	2	31.7	79.2	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	5,080	340	NS-FP	3,540	<5	18.3	55.3	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	5,490	413	9,860	4,410	3.4	23.7	109	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	9,740	636	6,800	9,240	3	18	84.3	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	5,890	594	4,380	5,350	4.4	11.3	56.9	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	2,030	524	1,900	12,800	<2	12.7	8.4	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	661	581	778	9,780	<2	7.5	46.3	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	1,940	586	121J	4,830	<2	2.0J	56.6	
trans 1,2-Dichloroethene	Feb-94	NA	NA	NA	NA	NA	NA								
	Nov-00	<2,500	<500	<500	NS-FP	NS-FP	<500								
	Oct-01	<250	<50	<125	NS-NW	Table 2	<25								
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	<10								
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100						
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25						
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125	
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	<25	<1,000	<500	<50	<5	<125	
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	<400	<400	<10	<2	<2	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	<50	<5	<2	<2	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	<400	<400	5	<2	<4	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	<100	<5	<2	<2	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	<100	<4	<2	<2	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<50	<4	<2	<2	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<200	<2	<2	<4	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<5	NS-FP	<200	<5	<2	<2	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<400	<200	<2	<2	<2	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<20	<500	<200	<2	<2	<4	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<20	<20	<500	<200	<2	<2	<4	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	<400	<400	<2	<2	<2	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<200	<2	<2	<4	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<500	<2	<2	<4	
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).													
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A													

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	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
1,4 Dioxane	Oct-02				NS-FP	NS-FP		NS-FP						
(* = Analyzed using EPA Method 8270)	Dec-02	NA	<5,000	<5,000	NS-FP	NS-FP	11,500	NS-FP	6,540	<50,000	<2,500	<500	<100	<2,500
	Mar-03	NA	<10,000	<5,000	NS-FP	NS-FP	21,900	NS-FP	7,200	<10,000	<5,000	<250	29	<625
	Jun-03	NA	<5,000	<10,000	NS-FP	NS-FP	22,300	NS-FP	12,800	<10,000	<10,000	<250	<50	<50
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	7,150	<10,000	<1,250	<125	<50	<50
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<50	<10,000	<10,000	<125	<50	<100
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<500	FP-2A	546*	<125	<50	38.8*
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	4,000*	NS-FP	416*	2.9*	<2*	93*
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	1,310*	NS-FP	304*	<2*	<2*	276*
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	468*	NS-FP	<2*	<2*	<2*	51*
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	101*	2670*	NS-FP	847*	<2*	<2*	63.9*
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	190*	3,550*	26	230	<2*	7.9*	472*
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	5,110	28,700	<500	<200	<2*	9*	701
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	167*	24,100	124*	<200	<2*	<2*	<100
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	47.4*	6,950	<10,000	<10,000	<2*	2.5*	38.7*
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	45.2*	19,700	<2,500	<5,000	<2*	<2*	681*
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	53.1*	9,160*	15*	71.6*	<2*	<2*	1,060
Ethylbenzene	Feb-94	333	1,720	115	1,180	1,910	45							
	Nov-00	960	120	1,000	NS-FP	NS-FP	82							
	Oct-01	805	197	1,550	NS-NW	Table 2	107							
	Feb-02	875	115	1,360	NS-FP	NS-FP	94.4							
	Jun-02	1,450	147	1,470	NS-FP	NS-FP	124	NS-FP	<1					
	Oct-02	884	469	945	NS-FP	NS-FP	213	NS-FP	<1					
	Dec-02	NA	590	1,150	NS-FP	NS-FP	50	NS-FP	<5	1,480	967	270	<1	334
	Mar-03	NA	614	982	NS-FP	NS-FP	100	NS-FP	<5	1,280	1,650	200	<1	25.3
	Jun-03	NA	<100	722	NS-FP	NS-FP	85.3	NS-FP	<10	1,400	940	11.1	<1	<1
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<10	1,360	1,010	52.5	2	<1
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<1	1,450	1,140	157	<1	<2
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	FP-2A	1,080	254	<1	<1
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	NS-FP	833	74.4	<1	<1
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	1,160	160	<1	<1
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	1,360	84.8	<1	<2
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	1,270	<2.5	NS-FP	860	61	<1	<1
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	1,230	<10	1,990	1,060	42.7	<1	<1
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	1,120	16.5	1,260	1,360	21.2	<1	46.6
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	1,780	<10	1,820	1,650	10.3	<1	<4
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	1,320	<20	1,510	714	<1	<1	<1
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	497	<10	1,550	619	<1	<1	<2
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	603	<10	1,430	1,290	<1	<1	<2
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65	
Methylene Chloride	Feb-94	1,220	2,980	6,530	4,760	21,400	<50								
	Nov-00	1,100	180	5,600	NS-FP	NS-FP	180								
	Oct-01	<1,250	<250	<625	NS-NW	Table 2	<125								
	Feb-02	<250	18.5	3,960	NS-FP	NS-FP	<20								
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100						
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	<25						
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	<25	<5	<125	
	Mar-03	NA	<1,000	1,630	NS-FP	NS-FP	<125	NS-FP	<25	<1,000	<500	<50	<5	<125	
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	<400	<400	<10	<2	<2	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	<50	<5	<2	<2	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	<400	<400	<5	<2	<4	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	<100	<5	<2	<2	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	<100	<4	<2	<2	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<50	<4	<2	<2	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<200	<2	<2	<4	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<5	NS-FP	<200	<5	<2	<2	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<400	<200	<2	<2	<2	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	<20	<500	<200	<2	<2	<4	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<20	<20	<500	<200	<2	<2	<4	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	<400	<400	<2	<2	<2	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<200	<2	<2	<4	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<500	<2	<2	<4	
4-Methyl-2-pentanone (MIBK)	Oct-01	<1,250	<250	4,130	NS-NW	Table 2	625								
	Feb-02	<625	<62.5	3,470	NS-FP	NS-FP	376								
	Jun-02	<1,250	<2,500	2,850	NS-FP	NS-FP	388	NS-FP	<500						
	Oct-02	<2,500	<250	1,410	NS-FP	NS-FP	276	NS-FP	<125						
	Dec-02	NA	<1,250	<1,250	NS-FP	NS-FP	<625	NS-FP	<125	<12,500	3,540	<125	<25	<625	
	Mar-03	NA	<5,000	<2,500	NS-FP	NS-FP	<625	NS-FP	<125	8,160	3,680	<250	<25	<625	
	Jun-03	NA	<500	<1,000	NS-FP	NS-FP	<125	NS-FP	<50	6,020	5,340	<125	<25	<25	
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<50	10,900	1,370	<12.5	<5	<5	
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	3,120	<1,000	<12.5	<5	<10	
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<50	FP-2A	<250	<12.5	<5	<5	
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<250	<10	<5	<5	
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<125	<10	<5	<5	
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<25	NS-FP	<500	<5	<5	<10	
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	<12.5	NS-FP	1,200	<12.5	<5	<5	
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<1,000	<500	<5	<5	<5	
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<500	370	<1,250	<500	<5	<5	<10	
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<50	<50	<1,250	<500	<5	<5	<10	
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<1000	<100	<1000	<1000	<5	<5	<5	
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<500	<5	<5	<10	
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<100	<50	<250	<1,250	<5	<5	<10	
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).													
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A													

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
Naphthalene	Oct-01	185	76	<125	NS-NW	Table 2	85							
	Feb-02	195	64	122	NS-FP	NS-FP	74.8							
	Jun-02	<250	89.4	178	NS-FP	NS-FP	116	NS-FP	<100					
	Oct-02	<500	62.2	59.2	NS-FP	NS-FP	<250	NS-FP	<25					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	<125	97	<5	<125
	Mar-03	NA	<1,000	206	NS-FP	NS-FP	110	NS-FP	<25	568	222	134	89.4	<125
	Jun-03	NA	<200	<400	NS-FP	NS-FP	80.3	NS-FP	<20	450	<400	<10	<2	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	<50	22	<2	<2
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	<400	<400	113	<2	<4
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	<100	163	<2	<2
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	<100	129	<2	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<50	157	<2	<2
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	<500	66.9	<2	<4
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	440	<5	NS-FP	<200	44.2	<2	<2
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	390	<20	1,620	<200	41.6	<2	<2
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	799	<20	1,130	318	27.7	<2	4.7
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	282	<20	395	172	15.1	<2	<2
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	142J	<400	<2	<2	<2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	140	<20	424	<200	<2	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	202	<20	132J	595J	<2	<2	<4
n-Propylbenzene	Jun-02	<250	28.5	<125	NS-FP	NS-FP	<25	NS-FP	<100					
	Oct-02	<500	44.2	<50	NS-FP	NS-FP	<250	NS-FP	<25					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	259	89.5	<5	<125
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	<25	<1,000	462	191	<5	<125
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	<400	<400	<10	<2	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	<400	303	45	<2	<2
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	<400	<400	123	<2	<4
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	355	237	<2	<2
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	210	142	<2	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	230	184	<2	<2
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	327	128	<2	<4
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	117	<5	NS-FP	220	122	<2	<2
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	132	<20	<400	<200	117	<2	<2
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	177	<20	<500	270	139	<2	6.6
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	232	<20	1,690	248	105	<2	<4
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	<400	598J	5.8	<2	<2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	177J	<200	2.3J	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	161	<20	96.0J	668J	2.7J	<2	<4

NA = Not Analyzed. ^t = Abandoned Well. sM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).

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Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
Tetrachloroethene	Feb-94	662	2,150	5,370	3,320	2,130	134							
(PCE)	Nov-00	<2,500	<500	130	NS-FP	NS-FP	<500							
	Oct-01	<100	<20	130	NS-NW	Table 2	100							
	Feb-02	20	3.3	302	NS-FP	NS-FP	8.2							
	Jun-02	24.8	<500	133	NS-FP	NS-FP	<25	NS-FP	122					
	Oct-02	<200	<20	39.3	NS-FP	NS-FP	<100	NS-FP	190					
	Dec-02	NA	<100	<100	NS-FP	NS-FP	<50	NS-FP	204	<1,000	<50	<10	97.1	<50
	Mar-03	NA	<400	411	NS-FP	NS-FP	<50	NS-FP	136	<400	<200	<20	11	<50
	Jun-03	NA	258	318	NS-FP	NS-FP	<50	NS-FP	132	<400	<400	<10	161	21.8
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	131	<400	<50	12.5	145	28.3
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	4.5	<400	<400	3.8	36.3	42.4
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	149	FP-2A	<100	3.8	51.4	42
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	126	NS-FP	<100	2.8	177	41.8
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	123	NS-FP	<50	3	239	40.5
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	57.9	NS-FP	<200	<2	58.8	19.2
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	98.6	NS-FP	<200	5.4	56.9	23.7
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<40	149	<400	<200	6.8	43.7	47.5
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	137	<500	<200	5.9	40.1	64.8
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<20	152	<500	<200	4.2	28.4	25.7
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	120	<400	<400	5.5	125	70.2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	110	<100	<200	15.7	88.1	23.7
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	165	<100	<500	17.9	2.1	26.5
1,1,1-Trichloroethane	Feb-94	9,370	3,470	444	36,200	114,000	90							
(1,1,1-TCA)	Nov-00	<2,500	<500	70	NS-FP	NS-FP	<500							
	Oct-01	<250	<50	<125	NS-NW	Table 2	<25							
	Feb-02	<125	<12.5	<100	NS-FP	NS-FP	<10							
	Jun-02	<250	<500	<125	NS-FP	NS-FP	<25	NS-FP	<100					
	Oct-02	<500	<50	<50	NS-FP	NS-FP	<250	NS-FP	92					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	32.3	13,800	52.8	21	<5	230
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	<125	NS-FP	35	12,300	<500	14	1.4	77.5
	Jun-03	NA	160	<400	NS-FP	NS-FP	<50	NS-FP	18.6	8,430	<400	19	<2	3.4
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	4,510	<50	8.7	<2	8.9
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	7,460	852	10.7	<2	<4
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	11.1	FP-2A	170	8.3	<2	<2
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	24	NS-FP	250	2.5	<2	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	27.9	NS-FP	485	2.4	<2	<2
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	27.8	NS-FP	290	<2	<2	<4
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	321	14.4	NS-FP	158	<5	<2	<2
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	302	<20	1,410	117	<2	<2	<2
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	527	<20	1,040	<200	<2	2.3	<4
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	71.1	<20	2,570	<200	<2	<2	<4
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	<40	420J	<400	<2	<2	<2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	<100	<200	<2	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	<20	122J	<500	<2	<2	<4
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
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Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^s	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
Trichloroethene (TCE)	Feb-94	7,160	3,040	1,730	14,300	1,320	45							
	Nov-00	<2,500	<500	1,500	NS-FP	NS-FP	<500							
	Oct-01	<100	<20	100	NS-NW	Table 2	<10							
	Feb-02	20	2.5	260	NS-FP	NS-FP	6.8							
	Jun-02	<250	<500	134	NS-FP	NS-FP	<25	NS-FP	<100					
	Oct-02	<200	<20	28	NS-FP	NS-FP	<100	NS-FP	56.6					
	Dec-02	NA	<100	<100	NS-FP	NS-FP	<50	NS-FP	50.4	<1,000	<50	<10	77.2	<50
	Mar-03	NA	<400	1,930	NS-FP	NS-FP	<50	NS-FP	39	<400	<200	<20	28.8	<50
	Jun-03	NA	182	806	NS-FP	NS-FP	<50	NS-FP	41.9	<400	<400	<10	72.7	4
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	47	<400	<50	7.5	95.2	12.1
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	1.7	<400	<400	<5	47	22.6
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	37.2	FP-2A	<100	<5	18.5	16.1
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	29.6	NS-FP	<100	<4	52.7	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	28.3	NS-FP	<50	<4	39.2	19.8
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	21.4	NS-FP	<200	<2	24.3	24.2
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	31.9	NS-FP	<200	<5	134	9.6
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	<40	19	<400	<200	<2	54.9	14.4
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	<200	114	<500	<200	2.2	120	23.5
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	<20	88.1	<500	<200	1.3	28.9	15.3
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	<400	76.0J	<400	<400	1.2J	92.7	13.7
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	57.7	<100	<200	3.6	71	8.1
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	<40	128	<100	<500	4	5.6	9.5
1,2,4-Trimethylbenzene	Oct-01	1,590	18.9	345	NS-NW	Table 2	200							
	Feb-02	2,800	231	668	NS-FP	NS-FP	234							
	Jun-02	3,850	<500	618	NS-FP	NS-FP	238	NS-FP	<100					
	Oct-02	2,120	116	299	NS-FP	NS-FP	327	NS-FP	<25					
	Dec-02	NA	232	356	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	2,120	1,640	<5	270
	Mar-03	NA	380	441	NS-FP	NS-FP	225	NS-FP	<25	1,590	2,950	703	<5	30
	Jun-03	NA	<200	378	NS-FP	NS-FP	152	NS-FP	<20	1,740	1,400	20	<2	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	1,430	1,830	110	<2	<2
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	1,640	1,582	498	<2	<4
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	2,060	1,200	<2	<2
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	1,410	555	<2	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	925	769	<2	<2
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	2,910	473	<2	<4
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	2,420	<5	NS-FP	1,540	211	<2	<2
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	2,760	<20	6,840	1,720	143	<2	<2
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	2,850	43.4	2,510	2,750	78.6	<2	74.5
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	4,200	<20	2,680	2,240	49.6	<2	<2
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	2,600	<40	2,140	1,030	12.4	<2	<2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	1,710	<20	2,760	974	4.1J	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	1,510	<20	2,410	6,600	<2	<2	<4
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-1 ^t	MW-2 ^t	MW-3 ^t	MW-4	MW-6	MW-7 ^t	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
1,3,5-Trimethylbenzene	Oct-01	470	62.9	145	NS-NW	Table 2	25							
	Feb-02	955	57.8	126	NS-FP	NS-FP	45.6							
	Jun-02	1,170	57.5	<125	NS-FP	NS-FP	<25	NS-FP	<100					
	Oct-02	574	67.8	57.8	NS-FP	NS-FP	<250	NS-FP	<25					
	Dec-02	NA	<250	<250	NS-FP	NS-FP	<125	NS-FP	<25	<2,500	675	765	<5	106
	Mar-03	NA	<1,000	<500	NS-FP	NS-FP	30	NS-FP	<25	404	903	411	<5	<125
	Jun-03	NA	<200	<400	NS-FP	NS-FP	<50	NS-FP	<20	398	440	19	<2	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<20	320	570	92	<2	<2
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	412	506	294	<2	<4
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<20	FP-2A	375	619	<2	<2
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<4	NS-FP	455	340	<2	<2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	500	410	<2	<2
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	NS-FP	1,440	290	<2	<4
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	579	<5	NS-FP	488	175	<2	<2
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	700	<20	1,680	522	127	<2	<2
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	811	23.9	610	786	35.3	<2	24.1
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	859	<20	680	764	30.6	<2	<4
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	664J	<40	518J	368J	<2	<2	<2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	521	<20	767	426J	<2	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	81.6J	<20	684	280J	<2	<2	<4
Toluene	Feb-94	560	7,390	579	12,700	15,300	398							
	Nov-00	4,000	57	3,700	NS-FP	NS-FP	800							
	Oct-01	2,470	26	5,150	NS-NW	Table 2	975							
	Feb-02	4,880	26.2	4,520	NS-FP	NS-FP	1,330							
	Jun-02	6,180	102	4,780	NS-FP	NS-FP	1,280	NS-FP	<20					
	Oct-02	5,390	39	4,810	NS-FP	NS-FP	2,560	NS-FP	<5					
	Dec-02	NA	158	5,770	NS-FP	NS-FP	541	NS-FP	<5	19,600	1,230	29.5	1.2	2,840
	Mar-03	NA	<200	2,310	NS-FP	NS-FP	938	NS-FP	<5	12,000	3,830	14.5	<1	230
	Jun-03	NA	<100	2,080	NS-FP	NS-FP	724	NS-FP	<10	10,900	4,620	<5	<1	<1
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<10	13,800	4,030	<2.5	<1	<1
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<1	13,300	6,570	9.7	<1	<2
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	FP-2A	6,050	<2.5	<1	<1
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	NS-FP	9,000	3.6	<1	<1
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	16,200	1.5	<1	<1
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	16,300	<1	<1	<2
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	6,170	4.8	NS-FP	6,580	<2.5	<1	<1
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	4,510	<10	12,800	7,830	<1	<1	<1
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	4,290	40.8	11,900	10,700	<1	<1	204
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	4,080	<20	15,000	7,400	<1	<1	<2
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	3,740	<20	11,200	4,400	<1	<1	<1
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	350	<10	10,500	4,810	<1	<1	<2
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	67	<10	10,400*	6,360	<1	<1	<2
		NA = Not Analyzed. ^t = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	<u>Date</u>	<u>MW-1^t</u>	<u>MW-2^t</u>	<u>MW-3^t</u>	<u>MW-4</u>	<u>MW-6</u>	<u>MW-7^t</u>	<u>MW-8</u>	<u>MW-9</u>	<u>MW-10</u>	<u>MW-11</u>	<u>MW-12</u>	<u>MW-13</u>	<u>MW-14</u>
Screened Interval (feet bgs)		40-60	30-50	29-49	17-27	20-30	34-55	30.5-40.5	30.5-45.5	25-40	30-40	30-40	52-62	55-65
Vinyl Chloride	Oct-01	1,350	75	<5	NS-NW	Table 2	188							
	Feb-02	1,060	197	896	NS-FP	NS-FP	517							
	Jun-02	<100	<200	<50	NS-FP	NS-FP	<10	NS-FP	<40					
	Oct-02	2,860	2,710	12,200	NS-FP	NS-FP	684	NS-FP	123					
	Dec-02	NA	2,720	12,700	NS-FP	NS-FP	423	NS-FP	107	4,100	198	1,100	6.2	<50
	Mar-03	NA	1,640	7,870	NS-FP	NS-FP	200	NS-FP	92	3,690	1,180	66.6	2.6	<50
	Jun-03	NA	4,500	2,380	NS-FP	NS-FP	360	NS-FP	173	3,410	1,830	36	3.8	<2
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	296	4,510	1,510	36	<2	5.2
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	5.2	3,700	1,530	13.1	<2	6.1
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	155	FP-2A	1,190	8.5	<1	<1
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	191	NS-FP	3,320	10.4	<1	2
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	111	NS-FP	2,550	10	<1	5.5
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	32.9	NS-FP	5,410	3.6	<1	<2
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	1,340	310	NS-FP	1,280	12.8	6.2	4.5
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	1,510	278	3,700	2,030	4.1	2.2	7.9
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	3,760	470	1,470	1,440	8.8	<1	19.8
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	4,050	340	608	2,160	4.4	<1	22
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	1,410	271	834	2,270	1.0J	<1	1.5J
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	185	170	169	262	<1	<1	5.6
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	206	315	187	4,650	<1	<1	12.5
Xylenes	Feb-94	2,192	7,790	1,014	4,362	4,710	186							
	Nov-00	3,400	<500	2,500	NS-FP	NS-FP	247							
	Oct-01	2,770	<2	3,720	NS-NW	Table 2	301							
	Feb-02	3,760	14.8	3,070	NS-FP	NS-FP	280							
	Jun-02	5,240	152	3,690	NS-FP	NS-FP	354	NS-FP	<20					
	Oct-02	3,570	73	2,570	NS-FP	NS-FP	576	NS-FP	<5					
	Dec-02	NA	355	2,900	NS-FP	NS-FP	121	NS-FP	<5	4,690	748	242	<1	1,760
	Mar-03	NA	316	2,100	NS-FP	NS-FP	318	NS-FP	<10	2,330	1620	28.1	<2	100
	Jun-03	NA	170	1,760	NS-FP	NS-FP	238	NS-FP	<10	4,590	1,560	<5	<1	<1
	Sep-03	NA	NA	NA	NS-NW	NS-FP	NA	NS-FP	<10	4,460	1,320	9	<1	<1
	Dec-03	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<1	4,590	2,020	157	<1	<2
	Mar-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<10	FP-2A	2,170	231	<1	<1
	Jun-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<2	NS-FP	1,930	18.9	<1	<1
	Sep-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	3,200	150	<1	<1
	Dec-04	NA	NA	NA	NS-FP	NS-FP	NA	NS-FP	<5	NS-FP	4,310	2.5	<1	<2
	Mar-05	NA	NA	NA	NS-NW	NS-NW	NA	4,590	5.5	NS-FP	2,420	53.2	<1	<1
	Jun-05	NA	NA	NA	NS-NW	NS-NW	NA	4,850	<20	7,600	2,890	35.6	<2	<2
	Sep-05	NA	NA	NA	NS-NW	NS-NW	NA	5,810	45.7	4,290	4,150	17.5	<2	277
	Dec-05	NA	NA	NA	NS-NW	NS-NW	NA	5,690	<20	6,490	4,470	8.4	<2	<4
	Mar-06	NA	NA	NA	NS-NW	NS-NW	NA	4,690	<40	6,080	2,220	<2	<2	<2
	Jun-06	NA	NA	NA	NS-NW	NS-NW	NA	873	<20	6,220	1,450	<2	<2	<4
	Sep-06	NA	NA	NA	NS-NW	NS-NW	NA	511	<20	5,610	3,180	<2	<2	<4

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Depth to Water (feet)	Feb-94													
DTW	Nov-00													
	Oct-01													
	Nov-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	43.63	33.69	40.44	33.06	33.33	41.11	42.34						
	Mar-03	41.53	32.01	38.28	35.36	33.42	39.08	40.36						
	Jun-03	39.62	29.99	36.41	33.13	38.3	37.05	38.5	35.8	34.23	37.73	39.22	36.7	
	Sep-03	44.19	33.48	40.65	38.37	33.29	41.57	42.68	39.87	39.55	42.69	44.35	38.45	
	Dec-03	46.84	36.85	43.47	42.73	38.65	44.53	45.44	Dry	42.65	45.69	47.35	39.6	
	Mar-04	47.92	36.88	44.56	40.28	37.15	45.22	46.59	38.51	43.25	46.41	48.03	36.7	
	Jun-04	48.49	38.36	45.15	45.74	37.23	46.29	47.48	39.92	44.24	47.32	48.95	39.25	
	Sep-04	51.32	40.1	48.21	FP only	38.34	48.92	50.09	Dry	46.98	49.93	51.62	NA	
	Dec-04	53.18	40.34	49.57	40.5	37.23	50.59	51.62	Dry	48.54	51.35	53.22	39.52	
	Mar-05	47.98	36.27	45.68	29.3	35.88	45.33	46.85	31.55	43.6	46.88	48.39	33.17	
	Jun-05	42.75	34.05	40.45	34.78	34.98	39.67	41.69	39.07	38.28	41.63	43.05	33.07	
	Sep-05	41.01	31.61	37.7	35.09	34.18	38.49	39.68	39.14	36.45	39.82	41.29	38.04	
	Dec-05	42.14	32.23	38.83	34.85	33.71	39.68	41.2	39.88	37.65	40.98	42.44	38.98	
	Mar-06	41.13	31.54	37.91	33.99	32.49	38.56	33.99	37.45	36.76	39.91	NA	32.21	
	Jun-06	39.64	29.47	36.31	NA	NA	36.69	38.41	36.99	NA	NA	NA	33.71	
	Sep-06	40.32	30.57	37.02	34.35	31.21	37.66	39.12	38.6	35.94	39.08	40	37.52	
VOCs														
Acetone	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<250	<1,250	<25	26,000	70,000	<25	<125						
	Mar-03	<250	<625	<25	39,700	70,200	<25	<125						
	Jun-03	<62.5	<125	<25	62,700	105,000	<62.5	<5	<250	<25	<25	<25	34,100	
	Sep-03	<10	<125	<5	44,200	NS-FP	<5	<25	NS-NW	<5	<5	<5	24,500	
	Dec-03	<12.5	NS-FP	<5	32,400	NS-FP	<5	<100	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	<5	NS-FP	<5	FP-2A	FP-2A	<5	<12.5	<10	Table 2B	Table 2B	Table 2B	10,200	
	Jun-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	7,220	
	Sep-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	NA	
	Dec-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	NS-NW	
	Mar-05	<5	<125	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	7,170	
	Jun-05	<100	<250	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	64,200	
	Sep-05	<100	<250	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	23,800	
	Dec-05	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	9,440	
	Mar-06	<10	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	NA	6,870	
	Jun-06	<25	<100	<5	NS-FP	NS-FP	<5	<50	<50	<5 SM	<5 SM	<5 SM	17,200	
	Sep-06	<50	<100	<5	1,670J	NS-FP	<5	<125	<50	<5 SM	<5 SM	<5 SM	7,680	
		NA = Not Analyzed. 1 = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Benzene	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<10	79	<1	610	1,160	<1	7.9						
	Mar-03	<10	82.5	<1	<500	1,100	<1	9						
	Jun-03	5.7	97.5	<1	392	1,390	<2.5	18	13.5	<1	<1	<1	125	
	Sep-03	5.6	72	<1	380	NS-FP	<1	53	NS-NW	<1	<1	<1	270	
	Dec-03	12.9	NS-FP	<1	415	NS-FP	1.3	64	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	36.1	NS-FP	<1	FP-2A	FP-2A	<1	92.7	34	Table 2B	Table 2B	Table 2B	225	
	Jun-04	3.4	NS-FP	<1	NS-FP	NS-FP	<1	5	NS-NW	<1	<1	<1	142	
	Sep-04	14.6	NS-FP	<1	NS-FP	NS-FP	<1	116	NS-NW	<1	<1	<1	NA	
	Dec-04	1.8	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	NS-NW	
	Mar-05	22.4	61.3	<1	NS-FP	NS-FP	<1	NS-FP	26.2	<1 SM	<1 SM	<1 SM	174	
	Jun-05	55.2	102	<1	NS-FP	NS-FP	<1	NS-FP	25	<1 SM	<1 SM	<1 SM	170	
	Sep-05	7.1	67.8	<1	NS-FP	NS-FP	<1	NS-FP	27.8	<1 SM	<1 SM	<1 SM	150	
	Dec-05	27.5	87.2	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	257	
	Mar-06	1.6J	176	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1 SM	<1 SM	NA	132	
	Jun-06	29.5	53	<1	NS-FP	NS-FP	<1	116	<10	<1 SM	<1 SM	<1 SM	140	
	Sep-06	33.6	64.4	<1	162	NS-FP	<1	64.5	<10	<1 SM	<1 SM	<1 SM	80.0J	
2-Butanone (MEK)	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<250	<1,250	<25	9,300	18,500	<25	<125						
	Mar-03	<250	<625	<25	23,900	28,900	<25	<125						
	Jun-03	<62.5	<125	<25	29,800	43,800	<62.5	<5	<250	<25	<25	<25	11,300	
	Sep-03	<10	<125	<5	32,000	NS-FP	<5	<25	NS-NW	<5	<5	<5	11,000	
	Dec-03	<12.5	NS-FP	<5	23,700	NS-FP	<5	<100	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	<5	NS-FP	<5	FP-2A	FP-2A	<5	<12.5	<10	Table 2B	Table 2B	Table 2B	6,050	
	Jun-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	2,260	
	Sep-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	NA	
	Dec-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	NS-NW	
	Mar-05	<5	<125	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	9,250	
	Jun-05	<100	<250	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	10,500	
	Sep-05	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	1,800	
	Dec-05	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	4,120	
	Mar-06	<10	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	NA	781J	
	Jun-06	<25	<100	<5	NS-FP	NS-FP	<5	<50	<50	<5 SM	<5 SM	<5 SM	6,350	
	Sep-06	<50	<100	<5	562J	NS-FP	<5	<125	<50	<5 SM	<5 SM	<5 SM	1,970J	
		NA = Not Analyzed. ¹ = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Chloroethane	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	<250	<5	<500	<2,500	<5	<25						
	Mar-03	<50	<125	<5	<2,500	<2,500	<5	<25						
	Jun-03	<5	<50	<2	1,970	2,860	<5	<2	<20	<2	<2	<2	<100	
	Sep-03	<4	<50	<2	460	NS-FP	<2	<10	NS-NW	<2	<2	<2	<100	
	Dec-03	<5	NS-FP	<2	<200	NS-FP	<2	<40	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	49.4	NS-FP	<2	FP-2A	FP-2A	<2	<5	104	Table 2B	Table 2B	Table 2B	2,000	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	<40	
	Sep-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	10.9	126	<2	NS-FP	NS-FP	<2	NS-FP	104	<2 SM	<2 SM	<2 SM	<100	
	Jun-05	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	97.8	<2 SM	<2 SM	<2 SM	<100	
	Sep-05	9.6	<40	<2	NS-FP	NS-FP	<2	NS-FP	42.6	<2 SM	<2 SM	<2 SM	<100	
	Dec-05	30.4	<40	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	<100	
	Mar-06	<4	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	<200	
	Jun-06	<10	<40	<2	NS-FP	NS-FP	<2	<20	<20	<2 SM	<2 SM	<2 SM	<200	
	Sep-06	<20	<40	<2	<200	NS-FP	<2	<50	<20	<2 SM	<2 SM	<2 SM	<200	
1,1-Dichloroethane (1,1-DCA)	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	79.8	3,930	13	4,390	5,150	16.2	141						
	Mar-03	117	3,130	2.5	6,700	5,110	18	276						
	Jun-03	107	3,330	<2	9,820	6,840	47.6	535	1,200	<2	<2	<2	931	
	Sep-03	88	4,450	<2	7,040	NS-FP	28.5	1,370	NS-NW	3.1	<2	5	1,670	
	Dec-03	262	NS-FP	<2	5,440	NS-FP	123	2,300	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	672	NS-FP	<1	FP-2A	FP-2A	89.2	2,240	1,900	Table 2B	Table 2B	Table 2B	3,620	
	Jun-04	53.6	NS-FP	4.3	NS-FP	NS-FP	12.8	203	NS-NW	<1	<1	<1	1,750	
	Sep-04	168	NS-FP	<1	NS-FP	NS-FP	2.5	2,760	NS-NW	2.9	52.1	<1	NA	
	Dec-04	101	NS-FP	<1	NS-FP	NS-FP	1.9	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	NS-NW	
	Mar-05	693	3,030	<1	NS-FP	NS-FP	7.7	NS-FP	1,390	9.4 SM	2.3 SM	<1 SM	1,670	
	Jun-05	961	2,590	<1	NS-FP	NS-FP	7.3	NS-FP	1,620	6.3 SM	1 SM	<1 SM	2,010	
	Sep-05	108	4,060	<1	NS-FP	NS-FP	17.4	NS-FP	1,870	4.0 SM	5.4 SM	<1 SM	2,230	
	Dec-05	262	3,990	<1	NS-FP	NS-FP	27.1	NS-FP	NS-NW	51.5 SM	5.9 SM	<1 SM	2,300	
	Mar-06	50.3	3,390*	<1	NS-FP	NS-FP	3.6J	NS-FP	1,060	<1 SM	7.2 SM	NA	1,850	
	Jun-06	556	1,910	<1	NS-FP	NS-FP	8.5	1,440	597	<1 SM	1.5 SM	<1 SM	1,570	
	Sep-06	554	2,840	1.4J	9,660	NS-FP	16.6	920	921	<1 SM	5.0 SM	<1 SM	952	
		NA = Not Analyzed. * = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
1,2-Dichloroethane	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	28	<5	<500	<2,500	<5	<25						
	Mar-03	<50	57.5	<5	<2,500	<2,500	<5	<25						
	Jun-03	<5	<50	<2	<400	<1,000	<5	<2	<20	<2	<2	<2	<100	
	Sep-03	<4	<50	<2	<200	NS-FP	<2	<10	NS-NW	<2	<2	<2	<100	
	Dec-03	<5	NS-FP	<2	<200	NS-FP	<2	<40	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	2.1	NS-FP	<2	FP-2A	FP-2A	<2	17.5	11.7	Table 2B	Table 2B	Table 2B	<100	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	1.8	NS-NW	<2	<2	<2	<40	
	Sep-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	18.3	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	6.1 SM	13.9 SM	2.4 SM	NS-NW	
	Mar-05	<2	43	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Jun-05	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Sep-05	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Dec-05	<3	42.6	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	<100	
	Mar-06	<4	14.0J	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	<400	
	Jun-06	<10	<40	<2	NS-FP	NS-FP	<2	<20	<20	<2 SM	<2 SM	<2 SM	<200	
	Sep-06	<20	<40	<2	<200	NS-FP	<2	<50	<20	<2 SM	<2 SM	<2 SM	<200	
1,1-Dichloroethene	Feb-94													
(1,1-DCE)	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	52.4	1,530	18.6	6,850	17,700	25.6	207						
	Mar-03	60.8	2,470	17.1	5,290	18,600	16.5	280						
	Jun-03	124	3,500	16	4,610	24,200	246	755	155	2	<2	4.2	2,340	
	Sep-03	98	2,470	14.2	4,260	NS-FP	45.7	1,800	NS-NW	<2	<2	<2	5,600	
	Dec-03	234	NS-FP	7.8	4,170	NS-FP	43.8	1,960	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	725	NS-FP	3.8	FP-2A	FP-2A	21	2,540	440	Table 2B	Table 2B	Table 2B	7,740	
	Jun-04	40.5	NS-FP	24.7	NS-FP	NS-FP	78.1	299	NS-NW	9.7	15.6	7.9	8,150	
	Sep-04	198	NS-FP	2.9	NS-FP	NS-FP	10.5	2,730	NS-NW	0.7	1.7	<2	NA	
	Dec-04	70.2	NS-FP	5.5	NS-FP	NS-FP	14.6	NS-FP	NS-NW	3.2 SM	8.6 SM	9.0 SM	NS-NW	
	Mar-05	945	1,840	10.2	NS-FP	NS-FP	12.1	NS-FP	564	<2 SM	17.7 SM	17.5 SM	8,040	
	Jun-05	858	1,370	7.1	NS-FP	NS-FP	18.7	NS-FP	441	<2 SM	16.5 SM	5.3 SM	9,250	
	Sep-05	142	3,430	15.2	NS-FP	NS-FP	41.8	NS-FP	526	57.8 SM	22.9 SM	10.3 SM	11,100	
	Dec-05	89.1	3,480	11.3	NS-FP	NS-FP	57.4	NS-FP	NS-NW	636 SM	50.6 SM	8.2 SM	9,210	
	Mar-06	120	2,380	21.7	NS-FP	NS-FP	<2	NS-FP	77.0J	21.3 SM	56.6 SM	NA	9,050	
	Jun-06	141	732	1.6J	NS-FP	NS-FP	16.3	1,690	50.7	4.1J SM	17.6 SM	5.4 SM	7,370	
	Sep-06	134	2,240	2.7J	833	NS-FP	26.8	1,160	93	5.7 SM	39.1 SM	3.9 SM	5,100	
		NA = Not Analyzed. ¹ = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
cis 1,2-Dichloroethene	Feb-94													
(cis 1,2-DCE)	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	332	975	36	18,100	11,800	9.3	324						
	Mar-03	496	1,150	7.1	21,200	11,100	6.9	543						
	Jun-03	617	1,540	2.2	23,900	13,000	7	1,060	3,860	<2	<2	<2	939	
	Sep-03	436	998	<2	15,900	NS-FP	4.6	2,450	NS-NW	8.7	<2	2.4	2,130	
	Dec-03	1,570	NS-FP	<2	14,500	NS-FP	26.7	4,400	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	2,890	NS-FP	2.2	FP-2A	FP-2A	18.8	4,090	6,020	Table 2B	Table 2B	Table 2B	5,130	
	Jun-04	102	NS-FP	8.7	NS-FP	NS-FP	4	437	NS-NW	2.8	16.2	1.8	6,550	
	Sep-04	790	NS-FP	1.5	NS-FP	NS-FP	3.7	5,370	NS-NW	8	4.6	<2	NA	
	Dec-04	72.2	NS-FP	10.1	NS-FP	NS-FP	5.5	NS-FP	NS-NW	4.5 SM	5.9 SM	2.2 SM	NS-NW	
	Mar-05	3,450	2,260	8.7	NS-FP	NS-FP	7.5	NS-FP	3,040	4.2 SM	6.5 SM	5.0 SM	5,900	
	Jun-05	3,830	1,510	5.2	NS-FP	NS-FP	2.3	NS-FP	3,260	2.3 SM	3.2 SM	2.6 SM	9,950	
	Sep-05	176	2,800	3.6	NS-FP	NS-FP	7.7	NS-FP	3,280	6.1 SM	5.0 SM	3.4 SM	11,200	
	Dec-05	265	4,110	3	NS-FP	NS-FP	7.3	NS-FP	NS-NW	24.9 SM	14.5 SM	2.7 SM	10,600	
	Mar-06	187	4,470*	3.4J	NS-FP	NS-FP	3.7J	NS-FP	2,250	6.2 SM	16.5 SM	NA	9,920	
	Jun-06	1,040	3,080	<2	NS-FP	NS-FP	<2	2,930*	1,890	4.0J SM	7.2 SM	3.9J SM	13,100	
	Sep-06	803	3,360*	2.3J	11,200	NS-FP	3.6J	2,060	2,260*	4.7J SM	18.1 SM	2.1 SM	7,650	
trans 1,2-Dichloroethene	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	<250	<5	<500	<2,500	<5	<25						
	Mar-03	<50	<125	<5	<2,500	<2,500	<5	<25						
	Jun-03	<5	<50	<2	<400	<1,000	<5	<2	<20	<2	<2	<2	<100	
	Sep-03	<4	<50	<2	<200	NS-FP	<2	12	NS-NW	<2	<2	<2	120	
	Dec-03	<5	NS-FP	<2	<200	NS-FP	<2	<40	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	29.4	NS-FP	<2	FP-2A	FP-2A	<2	14.5	32.3	Table 2B	Table 2B	Table 2B	<100	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	2	NS-NW	<2	<2	<2	<40	
	Sep-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	24	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	<2	<50	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Jun-05	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Sep-05	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Dec-05	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	<100	
	Mar-06	<4	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	<200	
	Jun-06	<10	<40	<2	NS-FP	NS-FP	<2	<20	<20	<2 SM	<2 SM	<2 SM	<200	
	Sep-06	<20	<40	<2	<200	NS-FP	<2	<50	<20	<2 SM	<2 SM	<2 SM	<200	
		NA = Not Analyzed. * = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Methylene Chloride	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	<250	<5	<500	<2,500	<5	<25						
	Mar-03	<50	<125	<5	<2,500	12,500	<5	<25						
	Jun-03	<5	<50	<2	<400	12,600	<5	<2	113	<2	<2	<2	10,600	
	Sep-03	<4	<50	<2	<200	NS-FP	<2	<10	NS-NW	<2	<2	<2	14,600	
	Dec-03	<5	NS-FP	<2	<200	NS-FP	<2	<40	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	<2	NS-FP	<2	FP-2A	FP-2A	<2	<10	6.6	Table 2B	Table 2B	Table 2B	9,300	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	11,900	
	Sep-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	<2	<50	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	4,730	
	Jun-05	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	5,050	
	Sep-05	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	8,500	
	Dec-05	<2	<40	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	10,000	
	Mar-06	<4	<40	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	5,960	
	Jun-06	<10	<40	<2	NS-FP	NS-FP	<2	<20	<20	<2 SM	<2 SM	<2 SM	2,610	
	Sep-06	<20	<40	<2	<200	NS-FP	<2	<50	<20	<2 SM	<2 SM	<2 SM	3,010	
4-Methyl-2-pentanone	Oct-01													
(MIBK)	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<250	<1,250	<25	<2,500	<12,500	<25	<125						
	Mar-03	<250	<625	<25	7,400	10,100	<25	<125						
	Jun-03	<62.5	<125	<25	12,600	14,400	<62.5	<5	<250	<25	<25	<25	9,250	
	Sep-03	<10	<125	<5	4,100	NS-FP	<5	<25	NS-NW	<5	<5	<5	7,350	
	Dec-03	<12.5	NS-FP	<5	1,330	NS-FP	<5	<100	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	<5	NS-FP	<5	FP-2A	FP-2A	<5	<12.5	<10	Table 2B	Table 2B	Table 2B	6,600	
	Jun-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	5,320	
	Sep-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	<10	NS-NW	<5	<5	<5	NA	
	Dec-04	<5	NS-FP	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	NS-NW	
	Mar-05	<5	<125	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	5,550	
	Jun-05	<100	<250	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	4,880	
	Sep-05	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	<5 SM	4,190	
	Dec-05	<5	<100	<5	NS-FP	NS-FP	<5	NS-FP	NS-NW	<5 SM	<5 SM	<5 SM	7,120	
	Mar-06	<10	<100	<5	NS-FP	NS-FP	<5	NS-FP	<100	<5 SM	<5 SM	NA	686J	
	Jun-06	<25	<100	<5	NS-FP	NS-FP	<5	<50	<50	<5 SM	<5 SM	<5 SM	2,420J	
	Sep-06	<50	<100	<5	233J	NS-FP	<5	<125	<50	<5 SM	<5 SM	<5 SM	<500	
		NA = Not Analyzed. [†] = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Naphthalene	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	<250	<5	<500	<2,500	<5	<25						
	Mar-03	27.5	55.3	116	1,130	1,610	<5	<25						
	Jun-03	<5	<50	<2	276	3,250	<5	<2	<20	<2	<2	<2	135	
	Sep-03	<4	<50	<2	<200	NS-FP	<2	<10	NS-NW	<2	<2	<2	125	
	Dec-03	<5	NS-FP	<2	<200	NS-FP	<2	20	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	<2	NS-FP	<2	FP-2A	FP-2A	<2	53.5	6.6	Table 2B	Table 2B	Table 2B	<100	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	102	
	Sep-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	70	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	2.4	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	<2	909	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	150	
	Jun-05	<40	615	<2	NS-FP	NS-FP	<2	NS-FP	<2	<2 SM	<2 SM	<2 SM	194	
	Sep-05	<2	594	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Dec-05	<2	349	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	140	
	Mar-06	<4	226	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	<200	
	Jun-06	<10	150	<2	NS-FP	NS-FP	<2	216	<20	<2 SM	<2 SM	<2 SM	<200	
	Sep-06	<20	489	<2	990	NS-FP	<2	168	<20	<2 SM	<2 SM	<2 SM	<200	
n-Propylbenzene	Jun-02													
	Oct-02													
	Dec-02	<50	<250	<5	<500	<2,500	<5	<25						
	Mar-03	<50	<125	<5	<2,500	<2,500	<5	<25						
	Jun-03	<5	<50	<2	<400	<1,000	<5	<2	<20	<2	<2	<2	<100	
	Sep-03	<4	<50	<2	<200	NS-FP	<2	10.5	NS-NW	<2	<2	<2	<100	
	Dec-03	<5	NS-FP	<2	230	NS-FP	22.9	<40	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	<2	NS-FP	<2	FP-2A	FP-2A	<2	14.3	<4	Table 2B	Table 2B	Table 2B	<100	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	<40	
	Sep-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	13.4	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	<2	81	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Jun-05	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<20	<2 SM	<2 SM	<2 SM	<100	
	Sep-05	<2	48.2	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Dec-05	<2	30.6	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	170	
	Mar-06	<2	27.8J	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	261J	
	Jun-06	<10	60.8J	<2	NS-FP	NS-FP	<2	315	<20	<2 SM	<2 SM	<2 SM	382J	
	Sep-06	<20	31.6J	<2	944	NS-FP	<2	209	<20	<2 SM	<2 SM	<2 SM	<200	
		NA = Not Analyzed. * = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Tetrachloroethene (PCE)	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<20	268	8.1	534	1,240	9.7	53.1						
	Mar-03	<20	350	25	<1,000	1,480	3.3	17.8						
	Jun-03	29.5	485	35.9	<400	1,460	48.9	<2	<20	4	4.1	12.3	1,920	
	Sep-03	36	273	15.1	<200	NS-FP	18.3	232	NS-NW	4.1	10.7	51	2,930	
	Dec-03	12.1	NS-FP	18	<200	NS-FP	3.4	133	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	63.2	NS-FP	36.2	FP-2A	FP-2A	9.3	347	4	Table 2B	Table 2B	Table 2B	4,160	
	Jun-04	53.1	NS-FP	37.6	NS-FP	NS-FP	25	228	NS-NW	34.5	120	31.7	1,830	
	Sep-04	56.5	NS-FP	20.4	NS-FP	NS-FP	35.6	491	NS-NW	1.7	<2	3.6	NA	
	Dec-04	38.2	NS-FP	81.1	NS-FP	NS-FP	27.1	NS-FP	NS-NW	52.1 SM	75.1 SM	86.1 SM	NS-NW	
	Mar-05	87.6	88.8	117	NS-FP	NS-FP	108	NS-FP	<40	69.1 SM	74.7 SM	48.6 SM	2,840	
	Jun-05	45.8	173	72.4	NS-FP	NS-FP	39.8	NS-FP	<40	49.1 SM	47.2 SM	51.6 SM	2,960	
	Sep-05	89.6	369	76.8	NS-FP	NS-FP	85.3	NS-FP	<40	124 SM	52.1 SM	63.7 SM	1,070	
	Dec-05	26.6	209	36.3	NS-FP	NS-FP	21.3	NS-FP	NS-NW	19.3 SM	86 SM	41 SM	2,160	
	Mar-06	87.5	115	40.9	NS-FP	NS-FP	88.6	NS-FP	<40	139 SM	86.7 SM	NA	1,970	
	Jun-06	18.8	39.0J	17.9	NS-FP	NS-FP	12.4	128	<20	95.6 SM	87.6 SM	88.3 SM	1,040	
	Sep-06	23.3	180	24	<200	NS-FP	21.1	80.5	<20	99.5 SM	144 SM	59.4 SM	849	
1,1,1-Trichloroethane (1,1,1-TCA)	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	<250	6	1,150	21,500	<5	<25						
	Mar-03	<50	33.5	9.5	665	37,800	<5	14						
	Jun-03	10.7	42.5	<2	260	61,200	25	70	<20	<2	<2	<2	1,250	
	Sep-03	6.4	<50	8	420	NS-FP	8.6	150	NS-NW	<2	<2	<2	1,790	
	Dec-03	<5	NS-FP	2.2	1,130	NS-FP	81.7	132	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	7.7	NS-FP	<2	FP-2A	FP-2A	20.9	186	<4	Table 2B	Table 2B	Table 2B	7,350	
	Jun-04	4.5	NS-FP	7.4	NS-FP	NS-FP	3.4	13.5	NS-NW	3.4	<2	<2	5,730	
	Sep-04	5.2	NS-FP	<2	NS-FP	NS-FP	3.2	312	NS-NW	<2	<2	<2	NA	
	Dec-04	2.2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	<2	50	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	3,900	
	Jun-05	<40	<100	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	6,200	
	Sep-05	<2	49.2	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	3,980	
	Dec-05	<2	83.2	<2	NS-FP	NS-FP	2.2	NS-FP	NS-NW	16.3 SM	5.2 SM	<2 SM	4,710	
	Mar-06	<4	50.0J	<2	NS-FP	NS-FP	3.2J	NS-FP	<40	<2 SM	<2 SM	NA	3,890	
	Jun-06	<10	12.4J	<2	NS-FP	NS-FP	<2	564	<20	<2 SM	4.1 SM	<2 SM	4,170	
	Sep-06	<20	72.0J	<2	126J	NS-FP	<2	290	<20	<2 SM	8.8 SM	<2 SM	1,740	
		NA = Not Analyzed. 1 = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Trichloroethene (TCE)	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<20	274	3	946	1,740	2.9	55.7						
	Mar-03	134	400	7.4	610	2,360	1.5	31.7						
	Jun-03	13.6	438	6.5	176	3,820	10	95	<20	2.3	2.3	20.4	1,330	
	Sep-03	16	2,530	3.9	<200	NS-FP	6.2	180	NS-NW	<2	11.5	25	2,100	
	Dec-03	9.3	NS-FP	7.3	169	NS-FP	4.4	140	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	17.9	NS-FP	9.5	FP-2A	FP-2A	2.5	240	<4	Table 2B	Table 2B	Table 2B	3,000	
	Jun-04	21.5	NS-FP	9.1	NS-FP	NS-FP	6.7	108	NS-NW	22.9	85.7	42.9	<40	
	Sep-04	12.1	NS-FP	17.3	NS-FP	NS-FP	12.2	321	NS-NW	<2	<2	3.7	NA	
	Dec-04	47	NS-FP	29.3	NS-FP	NS-FP	14.6	NS-FP	NS-NW	27.7 SM	33.9 SM	65.2 SM	NS-NW	
	Mar-05	49.7	164	23.8	NS-FP	NS-FP	25	NS-FP	<40	35.3 SM	51.9 SM	101 SM	3,560	
	Jun-05	<40	107	21.2	NS-FP	NS-FP	8.6	NS-FP	<40	31.2 SM	74.0 SM	46.9 SM	5,050	
	Sep-05	23.5	271	25.8	NS-FP	NS-FP	21.2	NS-FP	<40	50.1 SM	100 SM	63.8 SM	2,540	
	Dec-05	5.5	180	18.9	NS-FP	NS-FP	12.9	NS-FP	NS-NW	19.3 SM	86 SM	41 SM	2,160	
	Mar-06	28.6	162	6.7	NS-FP	NS-FP	6.7	NS-FP	<40	31.9 SM	50.4 SM	NA	2,800	
	Jun-06	8.4J	72	6.5	NS-FP	NS-FP	5	516	<20	19.9 SM	37.8 SM	41.7 SM	3,460	
	Sep-06	10.0J	184	8.8	<200	NS-FP	7.7	178	<20	24.7 SM	45.1 SM	53.3 SM	764	
1,2,4-Trimethylbenzene	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	<250	<5	1,880	2,500	<5	<25						
	Mar-03	<50	238	238	2,490	4,660	<5	<25						
	Jun-03	<5	<50	<2	2,070	8,090	19.5	18.5	<20	<2	<2	<2	<100	
	Sep-03	<4	<50	<2	1,680	NS-FP	<2	20.5	NS-NW	<2	<2	<2	555	
	Dec-03	<5	NS-FP	<2	1,810	NS-FP	33.1	<40	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	15	NS-FP	<2	FP-2A	FP-2A	<2	30	6.6	Table 2B	Table 2B	Table 2B	1,140	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	2	NS-NW	<2	<2	<2	832	
	Sep-04	3.1	NS-FP	<2	NS-FP	NS-FP	<2	151	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	<2	3,250	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	984	
	Jun-05	<40	2,210	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	1,180	
	Sep-05	<2	2,120	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	332	
	Dec-05	5.7	1,450	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	594	
	Mar-06	1.2J	968	<2	NS-FP	NS-FP	<2	NS-FP	<100	<2 SM	<2 SM	<2 SM	NA	
	Jun-06	<10	795	<2	NS-FP	NS-FP	<2	5,510	<20	<2 SM	<2 SM	<2 SM	492J	
	Sep-06	<20	1,120	<2	13,300	NS-FP	<2	2,030	<20	<2 SM	<2 SM	<2 SM	345J	
		NA = Not Analyzed. [†] = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
1,3,5-Trimethylbenzene	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<50	<250	<5	528	<2,500	<5	<25						
	Mar-03	<50	<125	<5	635	845	<5	<25						
	Jun-03	<5	<50	<2	506	1,530	<5	<2	<20	<2	<2	<2	<100	
	Sep-03	<4	<50	<2	400	NS-FP	<2	<10	NS-NW	<2	<2	<2	170	
	Dec-03	<5	NS-FP	<2	459	NS-FP	13.8	<40	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	3.4	NS-FP	<2	FP-2A	FP-2A	<2	5.5	<4	Table 2B	Table 2B	Table 2B	300	
	Jun-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	189	
	Sep-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	<4	NS-NW	<2	<2	<2	NA	
	Dec-04	<2	NS-FP	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	NS-NW	
	Mar-05	<2	411	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	218	
	Jun-05	<40	322	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	277	
	Sep-05	<2	252	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	<100	
	Dec-05	<2	92	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	614	
	Mar-06	<4	21.8J	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	<200	
	Jun-06	<10	58.4J	<2	NS-FP	NS-FP	<2	732	<20	<2 SM	<2 SM	<2 SM	241J	
	Sep-06	<20	28.0J	<2	445J	NS-FP	<2	115J	<20	<2 SM	<2 SM	<2 SM	<200	
Toluene	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	14.4	<50	<1	1,730	13,500	3.3	6.7						
	Mar-03	<10	<25	<1	4,970	11,600	<1	<5						
	Jun-03	<2.5	<25	<1	5,510	13,300	7.2	<1	<10	<1	<1	<1	<50	
	Sep-03	2	<25	<1	3,700	NS-FP	<1	10	NS-NW	<1	<1	<1	10,500	
	Dec-03	3.2	NS-FP	<1	2,350	NS-FP	14.6	<1	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	54.8	NS-FP	<1	FP-2A	FP-2A	<1	17.5	16.4	Table 2B	Table 2B	Table 2B	15,200	
	Jun-04	43.3	NS-FP	<1	NS-FP	NS-FP	<1	1.7	NS-NW	<1	<1	<1	14,500	
	Sep-04	101	NS-FP	<1	NS-FP	NS-FP	<1	94	NS-NW	<1	<1	<1	NA	
	Dec-04	33.5	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	NS-NW	
	Mar-05	42.2	62.5	<1	NS-FP	NS-FP	<1	NS-FP	22.8	<1 SM	<1 SM	<1 SM	16,900	
	Jun-05	180	149	<1	NS-FP	NS-FP	<1	NS-FP	22.8	<1 SM	<1 SM	<1 SM	14,200	
	Sep-05	27.5	29.4	<1	NS-FP	NS-FP	<1	NS-FP	34.2	<1 SM	<1 SM	<1 SM	15,400	
	Dec-05	54.5	<20	<1	NS-FP	NS-FP	1.7	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	16,400	
	Mar-06	7.4	<20	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1 SM	<1 SM	NA	12,500	
	Jun-06	79.3	<20	<1	NS-FP	NS-FP	<1	305	<10	<1 SM	<1 SM	<1 SM	17,600	
	Sep-06	81.3	<20	<1	3,970	NS-FP	<1	177	<10	<1 SM	<1 SM	<1 SM	8,360	
		NA = Not Analyzed. [†] = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

Table 2: Detected VOCs from Groundwater Sample Results using EPA Method 8260 (ug/L)

	Date	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	
Screened Interval (feet bgs)		54-64	29-46	56-66	21-46	30-45	57-67	53-63	30-40	71-81	67-77	71-81	30-40	
Vinyl Chloride	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	93.1	555	<2	<200	<1,000	<2	28.1						
	Mar-03	77.8	387	<2	<1,000	630	<2	22.6						
	Jun-03	49	395	<2	<400	<1,000	<5	<2	88.9	<2	<2	<2	<100	
	Sep-03	51	588	<2	800	NS-FP	<2	31.5	NS-NW	<2	<2	<2	<100	
	Dec-03	134	NS-FP	<2	<200	NS-FP	<2	47.3	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	546	NS-FP	<1	FP-2A	FP-2A	<1	66	860	Table 2B	Table 2B	Table 2B	450	
	Jun-04	138	NS-FP	<1	NS-FP	NS-FP	<1	13.6	NS-NW	<1	<1	<1	<40	
	Sep-04	272	NS-FP	<1	NS-FP	NS-FP	<1	202	NS-NW	<1	<1	<1	NA	
	Dec-04	34.7	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	NS-NW	
	Mar-05	724	1,180	<1	NS-FP	NS-FP	1.2	NS-FP	1,340	<1 SM	<1 SM	1.8 SM	138	
	Jun-05	1,320	488	<1	NS-FP	NS-FP	<1	NS-FP	1,080	<1 SM	<1 SM	<1 SM	<50	
	Sep-05	174	1,080	<1	NS-FP	NS-FP	<1	NS-FP	1,530	<1 SM	<1 SM	<1 SM	<50	
	Dec-05	418	721	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	<50	
	Mar-06	23.7	562	<1	NS-FP	NS-FP	<1	NS-FP	230	<1 SM	<1 SM	NA	<100	
	Jun-06	649	495	<1	NS-FP	NS-FP	<1	14J	71.2	<1 SM	<1 SM	<1 SM	<100	
	Sep-06	1,220	562	<1	196J	NS-FP	<1	16.0J	369	<1 SM	<1 SM	<1 SM	<100	
Xylenes	Feb-94													
	Nov-00													
	Oct-01													
	Feb-02													
	Jun-02													
	Oct-02													
	Dec-02	<10	<50	<1	2,690	3,940	<1	<5						
	Mar-03	<20	<50	<2	4,200	4,960	<2	8.4						
	Jun-03	<2.5	<25	<1	3,650	6,040	8.3	<1	<10	<1	<1	<1	1,050	
	Sep-03	<2	<25	<1	2,620	NS-FP	<1	93	NS-NW	<1	<1	<1	6,870	
	Dec-03	<2.5	NS-FP	<1	2,610	NS-FP	22	91.9	NS-NW	Table 2B	Table 2B	Table 2B	NS-NW	
	Mar-04	27.3	NS-FP	<1	FP-2A	FP-2A	<1	175	8.8	Table 2B	Table 2B	Table 2B	9,320	
	Jun-04	9.8	NS-FP	<1	NS-FP	NS-FP	<1	5.3	NS-NW	<1	<1	<1	8,320	
	Sep-04	22.1	NS-FP	<1	NS-FP	NS-FP	<1	200	NS-NW	<1	<1	<1	NA	
	Dec-04	3.5	NS-FP	<1	NS-FP	NS-FP	<1	NS-FP	NS-NW	<1 SM	<1 SM	<1 SM	NS-NW	
	Mar-05	10	544	<1	NS-FP	NS-FP	<1	NS-FP	<20	<1 SM	<1 SM	<1 SM	9,530	
	Jun-05	24	297	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	11,800	
	Sep-05	5.8	126	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	<2 SM	5,550	
	Dec-05	30.8	90.2	<2	NS-FP	NS-FP	<2	NS-FP	NS-NW	<2 SM	<2 SM	<2 SM	6,070	
	Mar-06	3.2J	157	<2	NS-FP	NS-FP	<2	NS-FP	<40	<2 SM	<2 SM	NA	5,970	
	Jun-06	22.1	56.8	<2	NS-FP	NS-FP	<2	2,800	<20	<2 SM	<2 SM	<2 SM	9,110	
	Sep-06	33.5	91.2	<2	10,100	NS-FP	<2	1,560	<20	<2 SM	<2 SM	<2 SM	4,240	
		NA = Not Analyzed. ¹ = Abandoned Well. SM = SnapSampler Method used for collection (Dec-04: MW-23, MW-24 and MW-25).												
		NS = Not Sampled : FP = Free Product present; NW = Insufficient Water present. FP-2A = Free product analysis in Table 2A												

TABLE 3

ANALYTICAL DATA
FOR SOIL VAPOR SAMPLES
FROM HISTORIC INVESTIGATIONS

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV1-15'bg	January-96	<1	1.9	4.3	5.2	<1	<1	2.2	<1	<1	<1
SV2-5'bg	January-96	<1	30	177	39	<1	10	215	<1	<1	<1
SV3-5'bg	January-96	<1	48	390	49	<1	<1	203	12	<1	<1
SV4-5'bg	January-96	<1	151.8	212.5	519	1.4	<1	56.7	1.7	11.1	1.8
SV5-5'bg	January-96	<1	91.7	56.3	400	<1	<1	15.5	<1	1.1	<1
SV6-5'bg	January-96	<1	481	1,385	1,194	4.1	219	1,282	109.7	100.1	13.9
SV7-5'bg	January-96	<1	16	104	78	<1	<1	17	<1	<1	<1
SV7-15'bg	January-96	<1	10.5	48.7	39.7	<1	2.2	23.1	1.3	<1	<1
SV8-5'bg	January-96	<1	51	267	52	<1	<1	18	<1	<1	<1
SV9-5'bg	January-96	<1	372	1,307	43.6	<1	54.8	2,883	29.2	<1	<1
SV9-15'bg	January-96	<1	63	<1	<1	<1	<1	61	<1	<1	<1
SV10-5'bg	January-96	<1	231	1,201	33	<1	11	576	<1	<1	<1
SV10-15'bg	January-96	<1	244	1,235	34	<1	12	588	<1	<1	<1
SV11-5'bg	January-96	<1	293	6	42	<1	29	1,382	14	105	20
SV12-5'bg	January-96	89	314	1,962	90	<1	153	4,316	25	262	21
SV13-5'bg	January-96	<1	13.4	24.2	7.5	<1	2.1	21.3	1.2	1.1	<1
SV13-15'bg	January-96	<1	20.1	26.4	8.5	<1	1.9	26	1.4	1.9	<1
SV14-5'bg	January-96	<1	36.5	68.2	116.3	2.8	2.6	9.8	1.5	29.2	6.6
SV15-5'bg	January-96	<1	<1	<1	1.4	<1	<1	<1	<1	<1	<1
SV15-15'bg	January-96	<1	90.3	64.9	578	10.3	17.1	243	16.2	139.7	28.9
SV16-5'bg	January-96	<1	1.2	3.2	4.5	<1	1.9	2.7	<1	1.2	<1
SV17-5'bg	January-96	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SV18-5'bg	January-96	<1	<1	2	1.1	<1	<1	<1	<1	<1	1.6
SV19-5'bg	January-96	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SV20-5'bg	January-96	<1	27	59.2	9.6	<1	9.9	844	33.4	2.1	<1
SV21-5'bg	January-96	<1	4.4	11.6	1	<1	2.5	170	<1	<1	<1
SV22-5'bg	January-96	<1	3.6	2.6	1.1	<1	1.3	89.6	2.2	<1	<1
SV23-5'bg	January-96	<1	<1	5.6	4.4	<1	<1	41	2.3	<1	<1
SV23-15'bg	January-96	<1	<1	27	15	7.6	<1	296	<1	7.6	28.1
SV24-5'bg	November-97	<1	11	5.8	29	<1	41	6.5	17	4	<1
SV25-5'bg	November-97	<1	<1	<1	2	<1	<1	<1	<1	<1	<1
SV26-5'bg	November-97	1.8	91	11	65	2.8	<1	133	<1	59	11
SV26-15'bg	November-97	<1	1,429	567	599	40	50	2,403	164	589	135
SV27-5'bg	November-97	<1	29	36	3.5	<1	16	528	28	<1	<1
SV28-5'bg	November-97	<1	2.4	11	1.9	<1	3.2	111	8.2	<1	<1

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1,-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV28-15'bg	November-97	<1	1,613	385	1198	14	9.8	1,557	63	106	38.6
SV29-5'bg	November-97	<1	<1	<1	1.9	<1	3.8	<1	<1	<1	<1
SV30-5'bg	November-97	<1	37	4.9	26	<1	<1	37	1.3	25	<1
SV30-15'bg	November-97	<1	11	7.6	9.5	<1	<1	9.1	1.4	11	1
SV31-5'bg	November-97	3.7	76	46	67	6.3	2.5	<1	<1	1.1	27
SV31-15'bg	November-97	<1	25	18	25	2.6	<1	<1	<1	<1	6.4
SV32-5'bg	November-97	<1	522	193	149	8.9	67	1,959	55	127	44.5
SV33-5'bg	November-97	1.9	109	146	52	3.8	14	110	6	12	21
SV34-5'bg	November-97	10	384	1,945	74	4.4	74	1,017	30	47	23.1
SV34-15'bg	November-97	5	474	1,885	119	5.6	62	2,118	45	85	23.1
SV35-5'bg	November-97	<1	24	47	11	<1	1.5	28	3.5	<1	<1
Soil vapor sampling conducted by BEII in November-December 2000, January 2002, and June 2002.											
SV1-8'bg	Nov-Dec 2000	<1	2.8	<1	2.9	<1	<1	<1	<1	<1	<1
SV1-20'bg	Nov-Dec 2000	<20	120	35	370	<20	70	<20	32	<20	<20
SV2-8'bg	Nov-Dec 2000	<1	3.3	<1	3.2	<1	1.2	<1	<1	<1	<1
SV2-20'bg	Nov-Dec 2000	<1	4.7	1.3	14	<1	<1	<1	1.1	<1	2.2
SV3-8'bg	Nov-Dec 2000	<1	<1	<1	3	<1	2.4	<20	<1	<1	<1
SV3-20'bg	Nov-Dec 2000	<20	260	75	520	<20	<20	3.1	<20	<20	<20
SV4-8'bg	Nov-Dec 2000	<1	3.2	<1	7	<1	<1	3.1	1.8	<1	2.1
SV4-20'bg	Nov-Dec 2000	13	1,700	190	2,200	90	<10	65	15	400	273
SV5-8'bg	Nov-Dec 2000	<1	6.2	<1	5.5	<1	<1	<1	<1	<1	<1
SV5-20'bg	Nov-Dec 2000	<50	2,000	220	2,300	110	,50	230	<50	1,000	380
SV6-8'bg	Nov-Dec 2000	<1	15	5.1	27	8.4	6.9	14	1.3	32	27.8
SV6-20'bg	Nov-Dec 2000	<100	6,600	830	7,400	600	<100	2,200	<100	5,300	1,730
SV7-8'bg	Nov-Dec 2000	<10	<10	<10	13	,10	<10	25	,10	27	24
SV7-20'bg	Nov-Dec 2000	<500	8,700	1,300	5,400	960	<500	790	<500	2,600	2,740
SV8-8'bg	Nov-Dec 2000	<10	34	20	25	10	42	140	37	240	30
SV8-20'bg	Nov-Dec 2000	<500	9,200	2,100	3,700	590	,500	2,900	<500	12,000	1,400
SV9-8'bg	Nov-Dec 2000	<10	13	<10	31	13	12	32	<10	120	60
SV9-20'bg	Nov-Dec 2000	<500	5,200	4,800	4,600	610	<500	18,000	,500	2,800	1,700
SV10-8'bg	Nov-Dec 2000	<10	16	19	87	<10	54	160	<10	30	11
SV10-20'bg	Nov-Dec 2000	<500	1,000	3,900	2,200	<500	<500	12,000	<500	<500	<500
SV11-8'bg	Nov-Dec 2000	<1	52	13	70	6.6	36	<1	5.2	46	24.9
SV11-20'bg	Nov-Dec 2000	<100	520	3,700	3,700	<100	<100	6,900	<100	150	170

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1,-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV12-8'bg	Nov-Dec 2000	<1	4.2	4.5	20	<1	1.3	6.6	4.4	2.6	1.8
SV12-20'bg	Nov-Dec 2000	<100	780	3,800	15,000	140	1,800	23,000	630	1,800	340
SV13-8'bg	Nov-Dec 2000	<10	<10	<10	11	<10	<10	<10	<10	11	12
SV13-20'bg	Nov-Dec 2000	<500	<500	1,600	3,600	<500	<500	6,800	1,300	2,500	1,000
SV14-8'bg	Nov-Dec 2000	<1	2	3.2	4.9	3.8	1.9	14	7.2	13	13.7
SV14-20'bg	Nov-Dec 2000	<500	790	4,800	3,100	900	2,000	28,000	2,600	5,100	3,490
SV15-8'bg	Nov-Dec 2000	<1	9.9	27	16	8.1	8.1	130	32	35	31.6
SV15-20'bg	Nov-Dec 2000	<1,000	<1,000	6,000	<1,000	<1,000	<1,000	39,000	1,200	1,900	1,100

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1,-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV16-8'bg	Nov-Dec 2000	<10	<10	45	<10	41	54	570	31	75	164
SV16-20'bg	Nov-Dec 2000	<1,000	<1,000	7,200	<1,000	<1,000	<1,000	60,000	2,700	2,600	1,900
SV17-8'bg	Nov-Dec 2000	<20	66	150	<20	46	43	3,500	79	240	191
SV17-20'bg	Nov-Dec 2000	<2,000	<2,000	4,500	<2,000	<2,000	<2,000	43,000	<2,000	2,800	<2,000
SV18-8'bg	Nov-Dec 2000	<100	<100	<100	<100	<100	<100	720	<100	170	<100
SV18-20'bg	Nov-Dec 2000	<200	520	1,100	1,000	330	<200	5,300	240	4,000	250
SV19-8'bg	Nov-Dec 2000	<10	<10	12	17	29	13	160	<10	29	99
SV19-20'bg	Nov-Dec 2000	<200	1,500	1,500	3,200	390	200	5,600	390	390	1,340
SV20-8'bg	Nov-Dec 2000	<10	<10	<10	22	18	13	76	13	18	68
SV20-20'bg	Nov-Dec 2000	<200	1,100	1,100	4,500	1,600	3,100	4,900	2,200	1,600	5,800
SV21-8'bg	Nov-Dec 2000	<10	,10	<10	12	23	30	27	11	200	83
SV21-20'bg	Nov-Dec 2000	<1,00	<1,00	<1,00	<1,00	<1,00	<1,00	<1,00	<1,00	8,800	2,500
SV22-8'bg	Nov-Dec 2000	<10	<10	<10	19	<10	<200	<10	<10	75	33
SV22-20'bg	Nov-Dec 2000	<200	230	<200	1,400	370	<200	<200	<200	400	440
SV23-8'bg	Nov-Dec 2000	<10	63	10	210	14	<10	48	<10	38	122
SV23-20'bg	Nov-Dec 2000	<200	,800	240	2,100	320	<200	360	<200	3,500	1,350
SV24-8'bg	Nov-Dec 2000	<10	<10	<10	17	<10	<10	<10	<10	24	12
SV24-20'bg	Nov-Dec 2000	<200	10,000	2,900	4,000	1,700	<200	280	<200	2,000	5,700
SV25-8'bg	Nov-Dec 2000	<10	11	25	15	<10	<10	<10	<10	50	29
SV25-20'bg	Nov-Dec 2000	<250	860	5,000	2,700	<250	<250	12,000	<250	<250	<250
SV26-8'bg	Nov-Dec 2000	<10	<10	1	11	<10	<10	18	<10	20	12
SV26-20'bg	Nov-Dec 2000	<500	<500	4,100	2,900	<500	<500	6,700	<500	<500	<500
SV27-8'bg	Nov-Dec 2000	<1	2.2	4.9	10	1.3	1	11	<1	8	5.3
SV27-20'bg	Nov-Dec 2000	<500	<500	2,400	3,400	<500	<500	4,200	<500	<500	<500
SV28-8'bg	Nov-Dec 2000	1	2.5	8.5	24	1.1	1.7	19	<1	6.8	4.6
SV28-20'bg	Nov-Dec 2000	<100	5,400	2,200	2,000	300	<100	650	<100	300	740
SV29-8'bg	Nov-Dec 2000	<1	4.7	3.9	8.4	3.8	<1	5.3	,1	7.9	13.1
SV-29-20'bg	Nov-Dec 2000	<100	5,800	1,700	2,300	630	<100	<100	<100	1,500	2,100
SV30-8'bg	Nov-Dec 2000	<10	110	17	410	76	<10	50	<10	690	308
SV30-20'bg	Nov-Dec 2000	<200	1,600	200	830	520	<200	240	<200	2,900	1,990

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV31-8'bg	Nov-Dec 2000	<20	<20	<20	120	<20	<20	120	130	260	44
SV31-20'bg	Nov-Dec 2000	<200	<200	<200	450	<200	<200	710	550	950	250
SV32-8'bg	Nov-Dec 2000	<1	10	4.9	16	8.8	2.2	6.2	5.5	45	37.4
SV32-20'bg	Nov-Dec 2000	300	7,700	3,200	5,400	2,100	1,600	10,000	2,000	33,000	9,200
SV33-8'bg	Nov-Dec 2000	<1	7.9	2.9	10	13	9	12	4.6	73	65
SV33-20'bg	Nov-Dec 2000	<100	8,100	1,200	5,700	580	<100	720	<100	1,600	1,270
SV34-8'bg	Nov-Dec 2000	<2	20	<2	19	4.8	<2	4.6	<2	13	12.3
SV34-20'bg	Nov-Dec 2000	<200	4,700	580	5,300	410	<200	920	<200	2,700	1,150
SV35-8'bg	Nov-Dec 2000	<1	26	2.9	46	15	1.7	7	1	55	49
SV35-20'bg	Nov-Dec 2000	<200	2,900	380	3,300	230	<200	<200	<200	280	480
SV36-8'bg	Nov-Dec 2000	<10	27	13	71	18	<10	22	<10	72	58
SV36-20'bg	Nov-Dec 2000	<500	1,300	9,400	1,900	<500	850	90,000	2,700	1,300	980
SV37-8'bg	January-02	1.4	<1	<1	<1	3.3	<1	<1	<1	4.6	11.4
SV37-20'bg	January-02	<1	17	32	6	<1	<1	28	<1	<1	<1
SV38-8'bg	January-02	<1	<1	<1	<1	<1	1.4	<1	<1	<1	<1
SV38-20'bg	January-02	<1	125	280	75	<1	6	410	4	<1	2.2
SV39-5'bg	January-02	<1	5.3	18	6.9	<1	1.2	14	1.1	<1	<1
SV39-10'bg	January-02	<1	5.9	17	6	<1	<1	18	<1	<1	<1
SV39-20'bg	January-02	3.7	180	180	55	5.5	12	210	7.5	37	21.3
SV40-5'bg	January-02	<1	51	61	18	<1	3.6	58	2.4	<1	<1
SV40-10'bg	January-02	<1	72	81	24	<1	3.7	70	2.6	<1	<1
SV40-20'bg	January-02	<100	1,400	480	270	<100	<100	140	<100	<100	<100
SV40S-5'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV40S-10'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV40S-20'bg	January-02	<8.3	2,090	671	519	37	<18	255	<14	27	86
SV41-5'bg	January-02	<1	67	22	13	<1	<1	4.9	<1	<1	<1
SV41-10'bg	January-02	<1	50	15	16	<1	<1	3.1	<1	<1	<1
SV41-20'bg	January-02	<100	2,500	710	920	<100	<100	<100	<100	240	220
SV41D-5'bg	January-02	<1	59	20	10	<1	<1	4.3	<1	<1	<1
SV41D-10'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV41D-20'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV42-5'bg	January-02	1.1	22	5.7	6.7	2.3	25	19	3.1	3.4	8.1
SV42-10'bg	January-02	<1	9.2	2	2.9	<1	6.6	6.1	<1	<1	<1
SV42-20'bg	January-02	<10	2,000	510	990	130	<10	100	<10	1,000	342
SV43-5'bg	January-02	<1	12	1	5.5	<1	<1	4.2	<1	3.7	1.1
SV43-10'bg	January-02	<1	34	1.1	30	<1	2.1	6.8	1	1.5	<1
SV43-20'bg	January-02	<10	1,000	100	1,200	90	<10	280	<10	940	284
SV44-5'bg	January-02	<1	17	16	37	<1	3.7	51	2	1	<1
SV44-10'bg	January-02	<1	6.4	13	27	<1	<1	32	<1	<1	<1
SV44-20'bg	January-02	<1	5.5	<1	6.5	<1	<1	3.2	<1	<1	<1
SV45-8'bg	January-02	<1	5.4	<1	2.5	<1	<1	2.6	<1	1.2	<1
SV45-20'bg	January-02	<1	20	1.6	22	<1	2	3	6.3	<1	<1
SV45S-8'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV45S-20'bg	January-02	<0.42	42	2.9	72	<0.57	39	7	33	0	<1.13
SV46-8'bg	January-02	<1	3.3	<1	2.3	<1	<1	<1	<1	<1	<1
SV46-20'bg	January-02	13	590	72	810	95	<10	50	<10	490	344
SV47-8'bg	January-02	<1	6.5	<1	4.5	<1	<1	0.4	<1	1.4	<1
SV47-20'bg	January-02	<10	850	82	1,000	110	<10	330	<10	1,100	384
SV48-8'bg	January-02	<1	63	4.3	55	11	<1	25	<1	83	38
SV48-20'bg	January-02	<10	1,300	240	730	92	<10	92	<10	760	273
SV49-8'bg	January-02	<1	48	5.7	22	3.1	1.7	6.9	<1	19	12.7
SV49-20'bg	January-02	<10	1,600	700	710	170	<10	67	<10	600	452
SV50-8'bg	January-02	<1	58	19	19	2.2	<1	3.6	<1	12	8
SV50-20'bg	January-02	<1	150	130	35	<1	2	140	2	2	<1
SV50D-8'bg	January-02	<1	55	18	17	1.2	<1	3.3	<1	7.8	3.3
SV50D-20'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV50S-8'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV50S-20'bg	January-02	<2.1	288	202	68	<2.9	10	288	4	<2.5	<5.8
SV51-8'bg	January-02	<1	3.9	1.1	1.1	<1	<1	<1	<1	1.3	<1
SV51-20'bg	January-02	<1	190	210	66	<1	<1	250	<1	<1	<1

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV52-8'bg	January-02	<1	6.6	2.8	1.6	<1	<1	3.3	<1	<1	<1
SV52-20'bg	January-02	<10	920	900	790	21	<10	2,100	<10	38	51
SV53-8'bg	January-02	<1	7.2	3.8	5.9	<1	<1	5.3	<1	<1	<1
SV53-20'bg	January-02	<1	3.7	7	3	<1	<1	2	<1	<1	<1
SV54-8'bg	January-02	<1	1.7	5.5	2.9	<1	<1	1.6	<1	<1	<1
SV54-20'bg	January-02	<10	330	800	780	<10	<10	1,400	<10	<10	<10
SV55-8'bg	January-02	<1	4.9	48	7.5	<1	1.8	57	<1	<1	<1
SV55-20'bg	January-02	<1	30	180	7.5	<1	2.3	250	1.6	<1	<1
SV55S-8'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV55S-20'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV56-8'bg	January-02	<1	9.3	71	22	<1	2.4	96	<1	<1	<1
SV56-20'bg	January-02	<10	120	590	330	<10	<10	990	<10	<10	<10
SV57-8'bg	January-02	<1	5.6	48	23	<1	3.4	61	<1	<1	<1
SV57-20'bg	January-02	<10	79	500	460	<10	<10	800	<10	<10	<10
SV58-8'bg	January-02	<1	1.3	6	8	<1	<1	13	<1	<1	<1
SV58-20'bg	January-02	<10	34	210	220	<10	<10	370	<10	<10	<10
SV59-8'bg	January-02	<1	98	1.7	96	<1	<1	13	1.6	3.6	<1
SV59-20'bg	January-02	<10	58	67	610	10	<10	880	<10	91	26
SV60-8'bg	January-02	<1	55	22	120	1.5	5.1	250	4	15	4.7
SV60-20'bg	January-02	<10	140	300	800	<10	<10	890	<10	16	<10
SV60S-8'bg	January-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV60S-20'bg	January-02	<10	285	712	2,200	15	23	2,400	18	24	22
SV61-7'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV61-10.5'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV61-12'bg	June-02	<1	<1	<1	7.1	<1	<1	<1	<1	<1	<1
SV61-20'bg	June-02	<1	2.4	<1	26	<1	<1	<1	<1	<10	<1
SV62-7'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV62-10.5'bg	June-02	<1	7.1<1	<1	<1	<1	<1	<1	<1	<1	<1
SV62-12'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV62-20'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3: Soil Vapor Results for Select COCs.

Sample-Depth	Date	Benzene	1,1-DCA	1,1-DCE	cis 1,2-DCE	Ethylbenzene	PCE	1,1,1,-TCA	TCE	Toluene	Xylenes
Soil vapor sampling conducted by SCS Engineers in January 1996, and November 1997.											
SV1-5'bg	January-96	<1	1.7	3.5	4	<1	<1	1.3	<1	<1	<1
SV63-7'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV63-10.5'bg	June-02	<1	1.8	<1	<1	<1	<1	<1	<1	<1	<1
SV63-12'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV63-20'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV64-7'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV64-10.5'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV64-12'bg	June-02	<1	<1	<1	7.3	<1	<1	<1	<1	<1	<1
SV64-20'bg	June-02	2.7	280	1100	3200	31	59	4300	170	110	81
SV65-7'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV65-10.5'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV65-12'bg	June-02	<1	<1	3.5	8.1	<1	1	16	<1	<1	<1
SV65-20'bg	June-02	1.7	160	670	880	1.3	58	1600	170	110	81
SV65S-7'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV65S-10.5'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV65S-12'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV65S-20'bg	June-02	2.5	138	1070	1550	<2	79	2650	104	13.7	81
SV66-7'bg	June-02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SV66-10.5'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV66-12'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV66-20'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV67-7'bg	June-02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SV67-10'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV67-12'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SV67-20'bg	June-02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV1-15'bg	January-96	<1
SV2-5'bg	January-96	<1
SV3-5'bg	January-96	15
SV4-5'bg	January-96	31.4
SV5-5'bg	January-96	50.5
SV6-5'bg	January-96	325
SV7-5'bg	January-96	36
SV7-15'bg	January-96	6.2
SV8-5'bg	January-96	23
SV9-5'bg	January-96	5.7
SV9-15'bg	January-96	<1
SV10-5'bg	January-96	<1
SV10-15'bg	January-96	<1
SV11-5'bg	January-96	<1
SV12-5'bg	January-96	<1
SV13-5'bg	January-96	<1
SV13-15'bg	January-96	<1
SV14-5'bg	January-96	<1
SV15-5'bg	January-96	<1
SV15-15'bg	January-96	<1
SV16-5'bg	January-96	<1
SV17-5'bg	January-96	<1
SV18-5'bg	January-96	<1
SV19-5'bg	January-96	<1
SV20-5'bg	January-96	<1
SV21-5'bg	January-96	<1
SV22-5'bg	January-96	<1
SV23-5'bg	January-96	<1
SV23-15'bg	January-96	<1
SV24-5'bg	November-97	<1
SV25-5'bg	November-97	<1
SV26-5'bg	November-97	<1
SV26-15'bg	November-97	3.2
SV27-5'bg	November-97	<1
SV28-5'bg	November-97	<1

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV28-15'bg	November-97	3.2
SV29-5'bg	November-97	<1
SV30-5'bg	November-97	<1
SV30-15'bg	November-97	<1
SV31-5'bg	November-97	<1
SV31-15'bg	November-97	2.7
SV32-5'bg	November-97	<1
SV33-5'bg	November-97	<1
SV34-5'bg	November-97	<1
SV34-15'bg	November-97	<1
SV35-5'bg	November-97	<1
		S _t
SV1-8'bg	Nov-Dec 2000	
SV1-20'bg	Nov-Dec 2000	<20
SV2-8'bg	Nov-Dec 2000	<1
SV2-20'bg	Nov-Dec 2000	<1
SV3-8'bg	Nov-Dec 2000	<1
SV3-20'bg	Nov-Dec 2000	<20
SV4-8'bg	Nov-Dec 2000	<1
SV4-20'bg	Nov-Dec 2000	<10
SV5-8'bg	Nov-Dec 2000	<1
SV5-20'bg	Nov-Dec 2000	<50
SV6-8'bg	Nov-Dec 2000	<1
SV6-20'bg	Nov-Dec 2000	<100
SV7-8'bg	Nov-Dec 2000	<10
SV7-20'bg	Nov-Dec 2000	<500
SV8-8'bg	Nov-Dec 2000	<10
SV8-20'bg	Nov-Dec 2000	<500
SV9-8'bg	Nov-Dec 2000	<10
SV9-20'bg	Nov-Dec 2000	<500
SV10-8'bg	Nov-Dec 2000	<10
SV10-20'bg	Nov-Dec 2000	
SV11-8'bg	Nov-Dec 2000	1.6
SV11-20'bg	Nov-Dec 2000	<100

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV12-8'bg	Nov-Dec 2000	<1
SV12-20'bg	Nov-Dec 2000	<100
SV13-8'bg	Nov-Dec 2000	<10
SV13-20'bg	Nov-Dec 2000	<500
SV14-8'bg	Nov-Dec 2000	<1
SV14-20'bg	Nov-Dec 2000	<500
SV15-8'bg	Nov-Dec 2000	<1
SV15-20'bg	Nov-Dec 2000	<1000

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV16-8'bg	Nov-Dec 2000	<10
SV16-20'bg	Nov-Dec 2000	<1000
SV17-8'bg	Nov-Dec 2000	<20
SV17-20'bg	Nov-Dec 2000	<2000
SV18-8'bg	Nov-Dec 2000	<100
SV18-20'bg	Nov-Dec 2000	<200
SV19-8'bg	Nov-Dec 2000	<10
SV19-20'bg	Nov-Dec 2000	<200
SV20-8'bg	Nov-Dec 2000	<10
SV20-20'bg	Nov-Dec 2000	<200
SV21-8'bg	Nov-Dec 2000	<10
SV21-20'bg	Nov-Dec 2000	<1000
SV22-8'bg	Nov-Dec 2000	<10
SV22-20'bg	Nov-Dec 2000	<200
SV23-8'bg	Nov-Dec 2000	<10
SV23-20'bg	Nov-Dec 2000	<200
SV24-8'bg	Nov-Dec 2000	<10
SV24-20'bg	Nov-Dec 2000	<200
SV25-8'bg	Nov-Dec 2000	<10
SV25-20'bg	Nov-Dec 2000	<250
SV26-8'bg	Nov-Dec 2000	<10
SV26-20'bg	Nov-Dec 2000	<500
SV27-8'bg	Nov-Dec 2000	<1
SV27-20'bg	Nov-Dec 2000	<500
SV28-8'bg	Nov-Dec 2000	<1
SV28-20'bg	Nov-Dec 2000	<100
SV29-8'bg	Nov-Dec 2000	<1
SV-29-20'bg	Nov-Dec 2000	<100
SV30-8'bg	Nov-Dec 2000	730
SV30-20'bg	Nov-Dec 2000	<200

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV31-8'bg	Nov-Dec 2000	<20
SV31-20'bg	Nov-Dec 2000	<200
SV32-8'bg	Nov-Dec 2000	<1
SV32-20'bg	Nov-Dec 2000	<100
SV33-8'bg	Nov-Dec 2000	<1
SV33-20'bg	Nov-Dec 2000	<100
SV34-8'bg	Nov-Dec 2000	<2
SV34-20'bg	Nov-Dec 2000	<200
SV35-8'bg	Nov-Dec 2000	<1
SV35-20'bg	Nov-Dec 2000	<200
SV36-8'bg	Nov-Dec 2000	<10
SV36-20'bg	Nov-Dec 2000	<500
SV37-8'bg	January-02	<1
SV37-20'bg	January-02	<1
SV38-8'bg	January-02	<1
SV38-20'bg	January-02	2
SV39-5'bg	January-02	<1
SV39-10'bg	January-02	<1
SV39-20'bg	January-02	6.7
SV40-5'bg	January-02	1.4
SV40-10'bg	January-02	2.4
SV40-20'bg	January-02	250
SV40S-5'bg	January-02	NA
SV40S-10'bg	January-02	NA
SV40S-20'bg	January-02	178
SV41-5'bg	January-02	<1
SV41-10'bg	January-02	<1
SV41-20'bg	January-02	<100
SV41D-5'bg	January-02	<1
SV41D-10'bg	January-02	NA
SV41D-20'bg	January-02	NA

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV42-5'bg	January-02	<1
SV42-10'bg	January-02	<1
SV42-20'bg	January-02	92
SV43-5'bg	January-02	<1
SV43-10'bg	January-02	<1
SV43-20'bg	January-02	57
SV44-5'bg	January-02	<1
SV44-10'bg	January-02	<1
SV44-20'bg	January-02	<1
SV45-8'bg	January-02	<1
SV45-20'bg	January-02	<1
SV45S-8'bg	January-02	NA
SV45S-20'bg	January-02	1
SV46-8'bg	January-02	<1
SV46-20'bg	January-02	200
SV47-8'bg	January-02	<1
SV47-20'bg	January-02	39
SV48-8'bg	January-02	1.7
SV48-20'bg	January-02	26
SV49-8'bg	January-02	<1
SV49-20'bg	January-02	41
SV50-8'bg	January-02	<1
SV50-20'bg	January-02	6
SV50D-8'bg	January-02	<1
SV50D-20'bg	January-02	NA
SV50S-8'bg	January-02	NA
SV50S-20'bg	January-02	4.3
SV51-8'bg	January-02	<1
SV51-20'bg	January-02	6.8

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV52-8'bg	January-02	<1
SV52-20'bg	January-02	28
SV53-8'bg	January-02	1.9
SV53-20'bg	January-02	<1
SV54-8'bg	January-02	<1
SV54-20'bg	January-02	39
SV55-8'bg	January-02	<1
SV55-20'bg	January-02	<1
SV55S-8'bg	January-02	NA
SV55S-20'bg	January-02	NA
SV56-8'bg	January-02	<1
SV56-20'bg	January-02	<10
SV57-8'bg	January-02	<1
SV57-20'bg	January-02	<10
SV58-8'bg	January-02	<1
SV58-20'bg	January-02	<10
SV59-8'bg	January-02	<1
SV59-20'bg	January-02	<10
SV60-8'bg	January-02	<1
SV60-20'bg	January-02	16
SV60S-8'bg	January-02	NA
SV60S-20'bg	January-02	11
SV61-7'bg	June-02	NA
SV61-10.5'bg	June-02	NA
SV61-12'bg	June-02	<1
SV61-20'bg	June-02	<1
SV62-7'bg	June-02	NA
SV62-10.5'bg	June-02	<1
SV62-12'bg	June-02	NA
SV62-20'bg	June-02	NA

Sample-Depth	Date	Vinyl Chloride
SV1-5'bg	January-96	<1
SV63-7'bg	June-02	NA
SV63-10.5'bg	June-02	<1
SV63-12'bg	June-02	NA
SV63-20'bg	June-02	NA
SV64-7'bg	June-02	NA
SV64-10.5'bg	June-02	NA
SV64-12'bg	June-02	<1
SV64-20'bg	June-02	14
SV65-7'bg	June-02	NA
SV65-10.5'bg	June-02	NA
SV65-12'bg	June-02	<1
SV65-20'bg	June-02	14
SV65S-7'bg	June-02	NA
SV65S-10.5'bg	June-02	NA
SV65S-12'bg	June-02	NA
SV65S-20'bg	June-02	8.8
SV66-7'bg	June-02	<1
SV66-10.5'bg	June-02	NA
SV66-12'bg	June-02	NA
SV66-20'bg	June-02	NA
SV67-7'bg	June-02	<1
SV67-10'bg	June-02	NA
SV67-12'bg	June-02	NA
SV67-20'bg	June-02	NA

APPENDIX 1

Maps

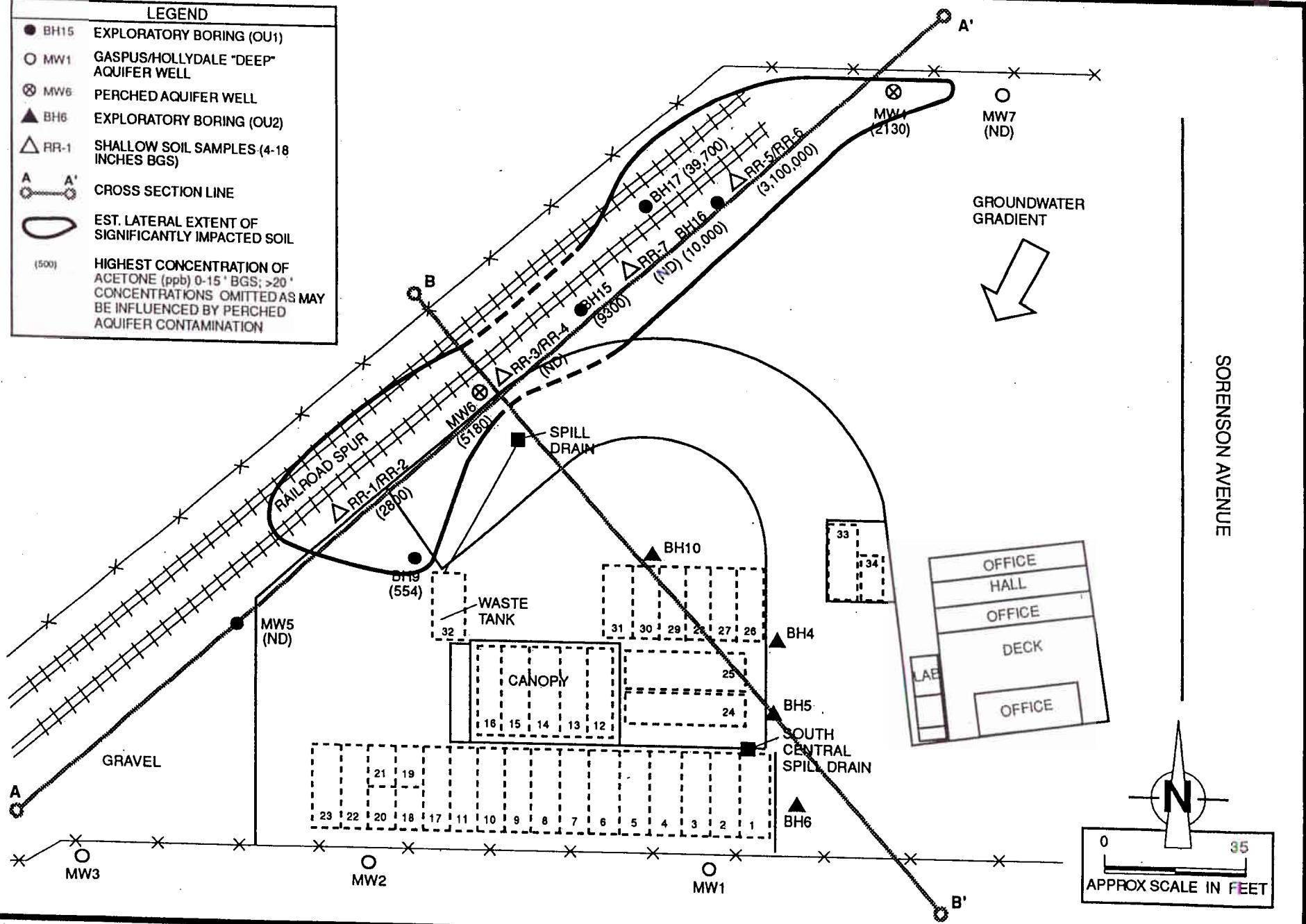
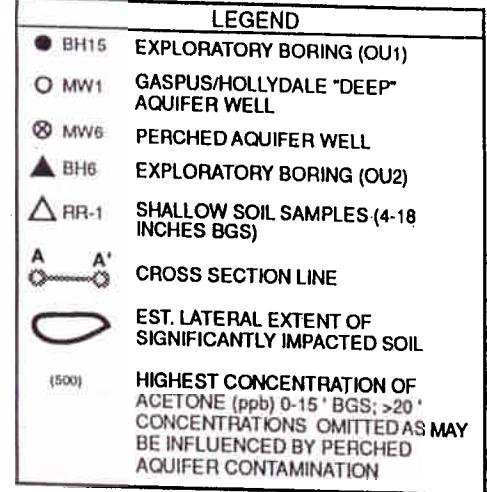


Figure 8. Estimated Lateral Extent of Soil Significantly Impacted by Acetone (0 - 15' bgs), Angeles Chemical Site, Santa Fe Springs, California.

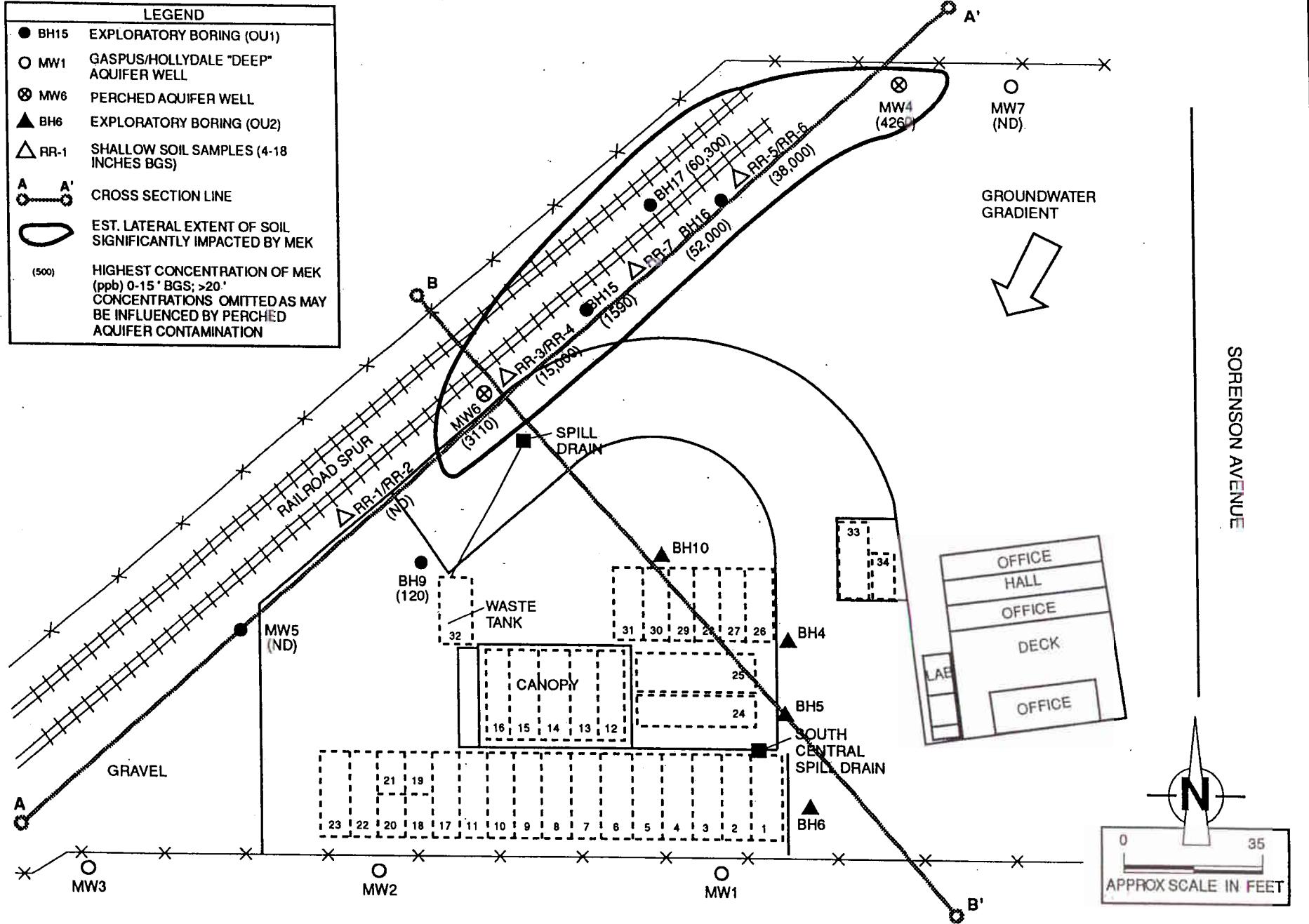
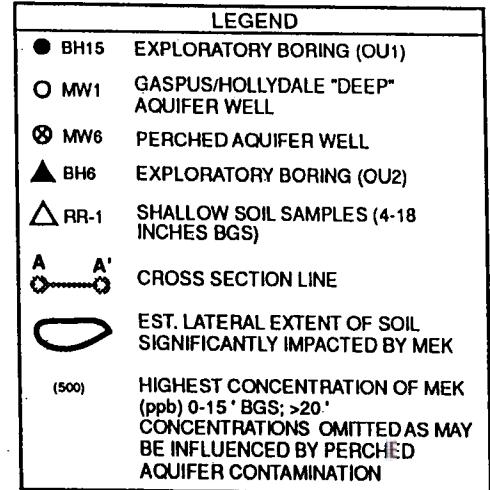


Figure 9. Estimated Lateral Extent of Soil Significantly Impacted by MEK (0 - 15' bgs), Angeles Chemical Site, Santa Fe Springs, California.

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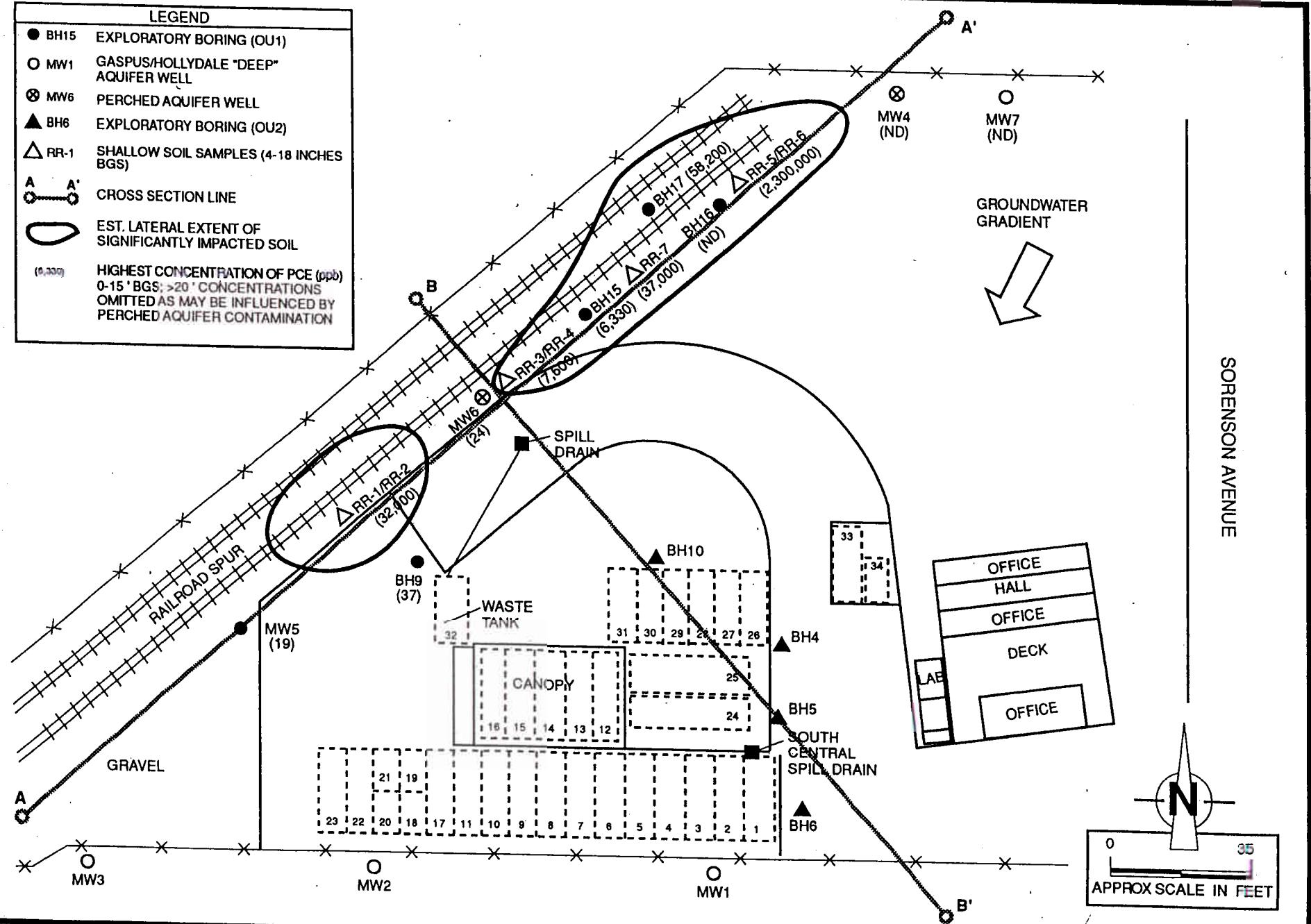
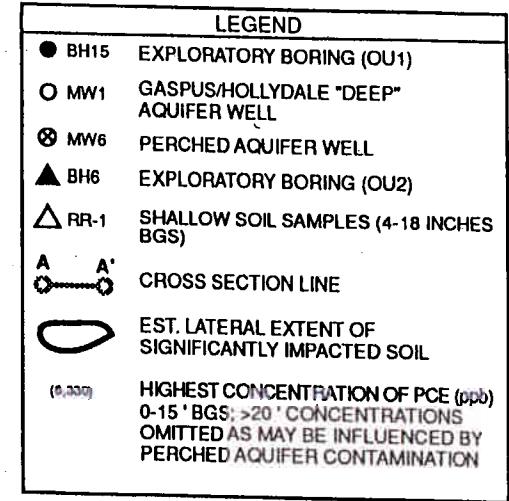


Figure 10. Estimated Lateral Extent of Soil Significantly Impacted by PCE (0-15' bgs), Angeles Chemical Site, Santa Fe Springs, California.

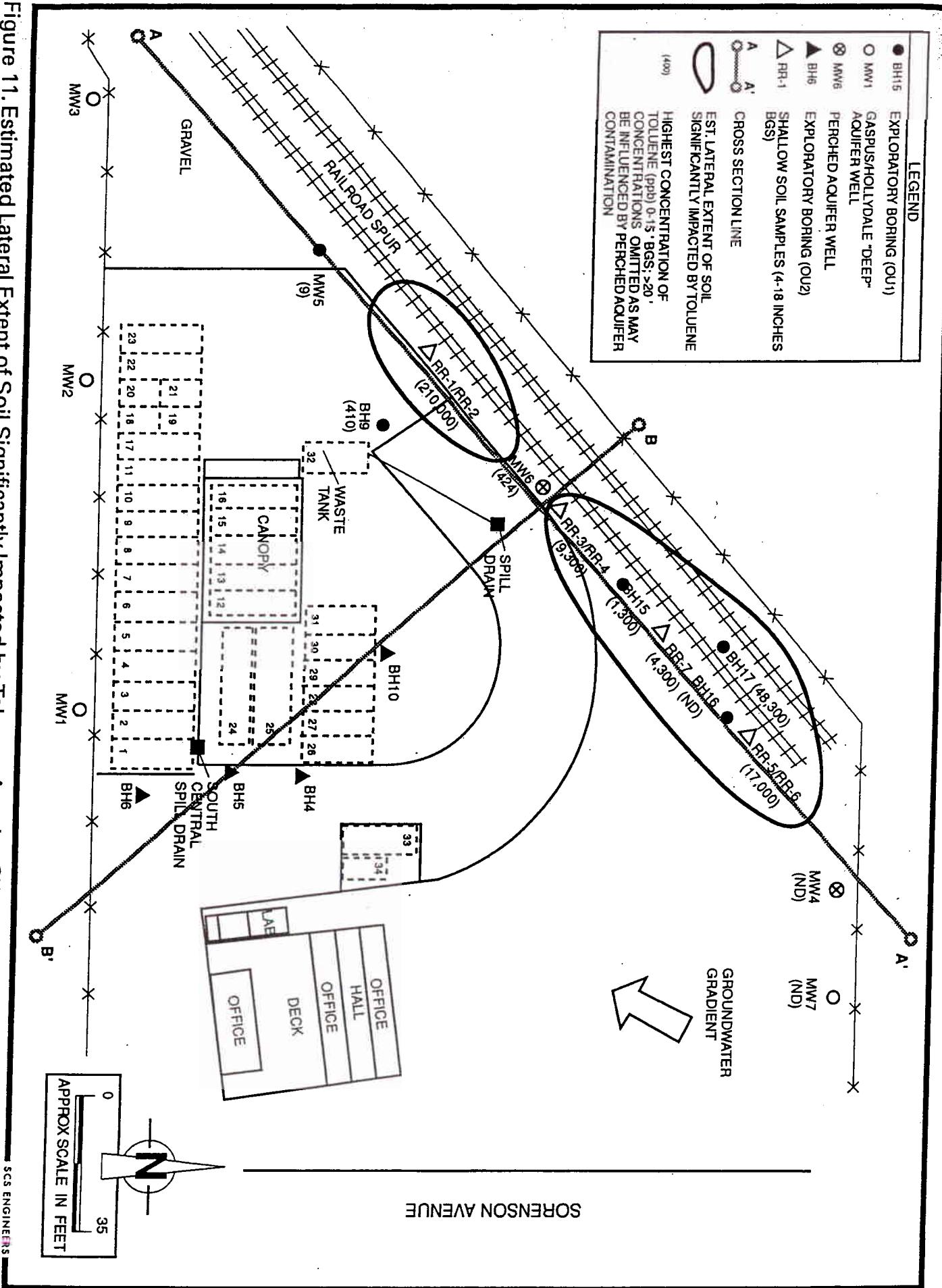
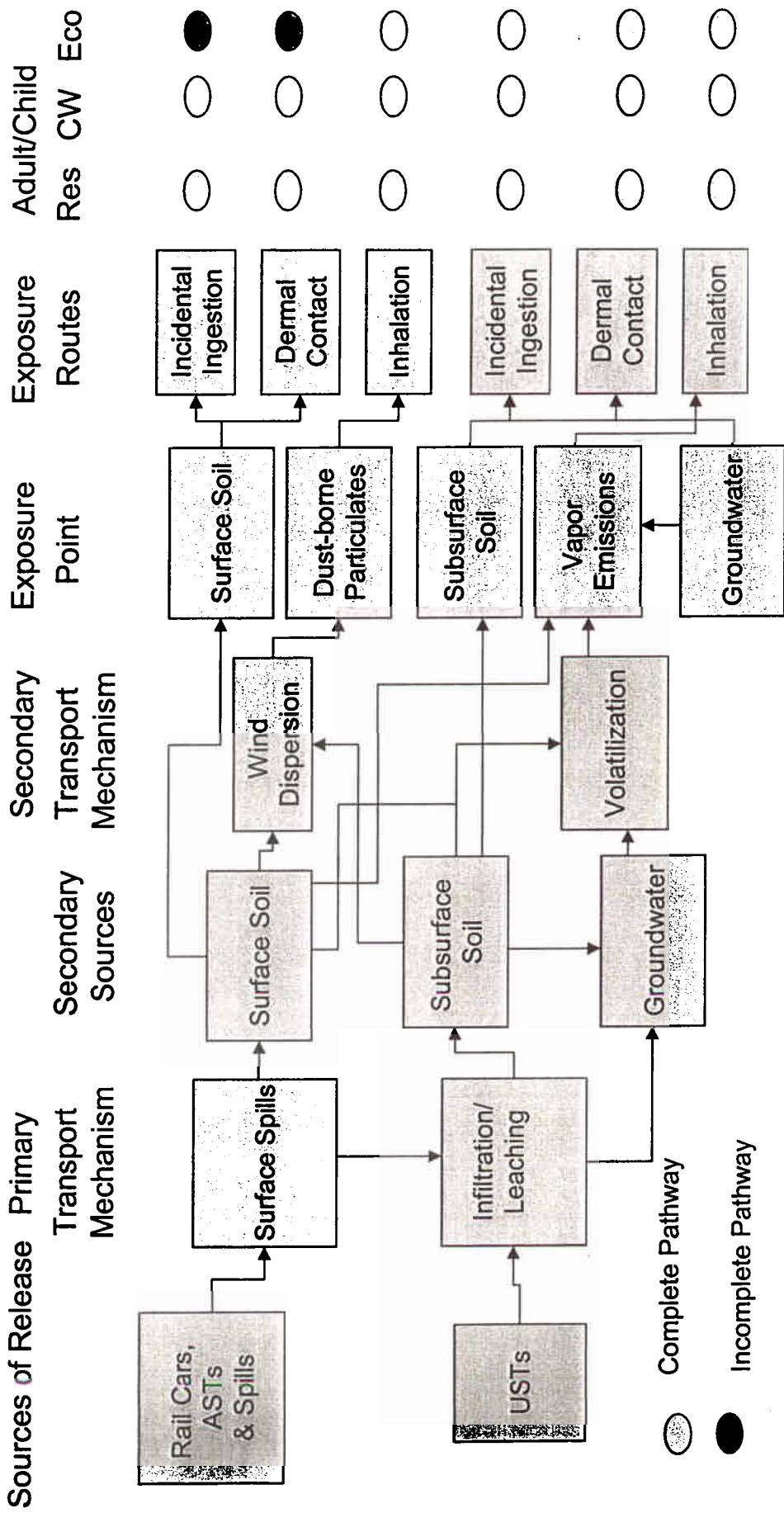


Figure 11. Estimated Lateral Extent of Soil Significantly Impacted by Toluene, Angeles Chemical Site, Santa Fe Springs, California

APPENDIX 2

Conceptual Site Model

Conceptual Site Model – Angeles Chemical Company



DTSC